

AD-A052 081

SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA CALIF F/G 8/10
SURFACE WATER TEMPERATURES AT SHORE STATIONS, UNITED STATES WES--ETC(U)
AUG 77 N00014-75-C-0152

UNCLASSIFIED

SIO-REF-77-12

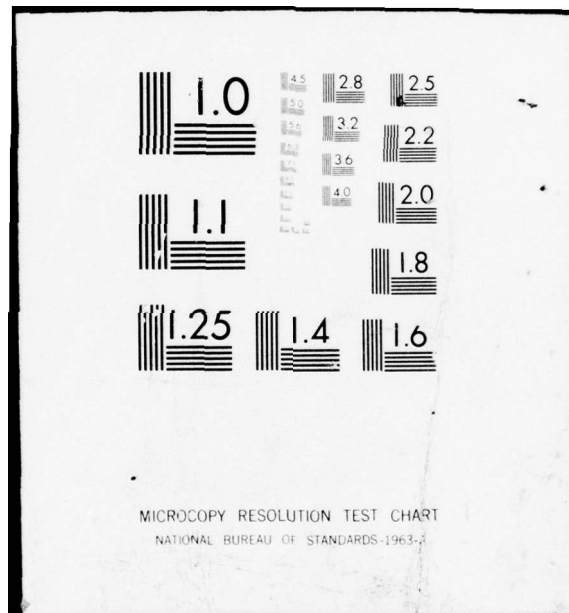
NL

| OR |

AD
A052 081

END
DATE
FILMED
5-78

DDC



AD No.
DDC FILE COPY

AD A 052081

UNIVERSITY OF CALIFORNIA SCRIPPS INSTITUTION OF OCEANOGRAPHY

data report

SURFACE WATER TEMPERATURES
AT SHORE STATIONS

United States West Coast
1974

SIO Reference 77-12
1 August 1977

DISTRIBUTION STATEMENT A
Approved for public release;
Distribution Unlimited

19

NB - 388-127
code - 462

DDC
MAR 29 1978
F

UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

(6) SURFACE WATER TEMPERATURES
AT SHORE STATIONS,
United States West Coast
1974 •

Including surface salinities from
several stations and five-meter
temperatures and salinities at
Scripps Pier



(11) 1 Aug 77

Sponsored by:

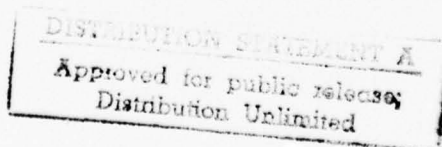
Marine Life Research Group
Office of Naval Research
Contract No. N 00014-75-C-0152

(12) 53p.
(15)
This report may be reproduced for
any purpose of the U. S. Government

(14) SIO-Reference 77-12

Approved for distribution:

W A Nierenberg
W. A. Nierenberg, Director



319 100 ✓

1473
LB

CONTENTS

	Page
Introduction	3
Station Descriptions	5
Surface-Temperature Stations in Geographical Order	8
Alphabetical List of Surface-Temperature Stations	10
Shoreline Surface Water-Temperature Data	
Station Location Chart	11
Daily Observations	13
Distribution	53

ACCESSION for	
NTIS	<input checked="" type="checkbox"/>
DDC	<input type="checkbox"/>
UNANNOUNCED	
JUSTIFICATION	
BY	
DISTRIBUTION/ST	
Dist	
A	

INTRODUCTION

This report presents temperature and salinity data observed during 1974 at shoreline stations along the west coast of North America from the Strait of Juan de Fuca, Washington to La Jolla, California. The data consists of daily recorded temperature and salinity values when available, with monthly means, ranges and standard deviations based on these observations. Also computed are yearly mean, maximum and minimum values for those stations with some observations for every month of the year. Please note that previous reports have not included daily recorded values.

Various agencies and individuals volunteer to make daily observations which are sent weekly to the Scripps Institution of Oceanography Marine Life Research Group for processing. The agencies are: National Oceanic and Atmospheric Administration/National Ocean Survey (NOAA/NOS), U. S. Coast Guard, Point Reyes Bird Observatory, The California State Park System, Oregon State University, California State University, Pacific Gas and Electric Company, and Scripps Institution of Oceanography of the University of California, San Diego. All stations, excluding those of NOAA/NOS and those reporting to Oregon State University, are maintained in cooperation with Scripps Institution of Oceanography, which supplies them with thermometers.

Observations are taken by measuring the temperature of a sample of water scooped from the surface in a bucket or a bottle. The temperatures are recorded as observed with no attempt to screen or eliminate observer errors.

Each month, NOAA/NOS sends to Scripps Institution daily temperature and density values from four tide stations located at Neah Bay, Washington, and Crescent City, Port San Luis and Santa Monica, California. Temperature readings for Santa Monica and Port San Luis are recorded to 0.1°F , and for Crescent City and Neah Bay, to 0.5°F . These Fahrenheit readings have been converted and are reported to the nearest 0.1°C .

Temperatures from Scripps cooperative stations and from stations reporting to Oregon State University are read to the nearest 0.1°C with calibrated thermometers. The observations are considered accurate to approximately $\pm 0.2^{\circ}\text{C}$.

Salinities for Scripps Pier, Newport Beach, S. E. Farallon Island, Pacific Grove, San Clemente and Ventura Marina are obtained from sea water samples in special salinity bottles supplied by Scripps. Water samples are forwarded to Scripps at the end of each month for determination by inductive salinometer. Salinities are listed to hundredths of a part per thousand. Values of maximum salinities may possibly be in error due to evaporation or contamination of the samples in the bottles.

The density values reported from three NOAA/NOS tide stations, Santa Monica, San Luis and Neah Bay, are obtained by uncalibrated hydrometer and in previous years have been converted to salinity values at Scripps from density tables.¹ The errors in salinity from uncalibrated hydrometers can range between 0.1 and 3 ‰. It is for this reason that salinity data obtained from uncalibrated hydrometers will no longer be included in this report.

Most salinity data reported to Oregon State University, including the NOAA/NOS station at Crescent City, is determined by hydrometer readings and density tables.¹ These hydrometers, however, are calibrated against an inductive salinometer which has an accuracy of about ± 0.003 ‰. The accuracy of salinity determined by calibrated hydrometer is believed to be ± 0.2 ‰. Newport Marine Science Center determines salinity by inductive salinometer as is done at Scripps.

¹ Sea Water Temperature and Density Reduction Tables, Special Publication no 298, 1953. Coast and Geodetic Survey, U. S. Department of Commerce.

Reported salinities exceeding 34 ‰ may be due to faulty sampling techniques. Salinities less than 30 ‰ are due to local precipitation or fresh water runoff. Neither are representative of offshore oceanic waters. As with previous reports in this series, all salinities higher than 34.9 have been omitted.

The data presented is grouped in three 10-day periods: 1 to 10, 11 to 20 and 21 to 30 (or 31). The mean is computed for each 10-day period. The monthly means, maxima and minima are reported. Where some data was recorded for every month of the year, the annual mean, maximum and minimum are also given.

STATION DESCRIPTIONS

From time to time, questions arise concerning just where the temperatures are taken and how representative these temperatures might be. Each of the currently reporting stations in California are described.

Crescent City

This is a Coast and Geodetic Survey tide gauge station located on the end of the Coast Guard Pier inside the harbor at Crescent City. The harbor has a small entrance formed by two breakwaters. Storm run-off causes a considerable drop in salinity as the rain water is trapped in the harbor. Differences of as much as 3.03 parts/thousand have been measured in the salinity between the tide gauge site and the water on the beach outside the breakwater. Temperatures, however, are nearly the same.

Trinidad Head

California State University-Humboldt runs a marine laboratory on this rocky headland. Temperatures are taken daily off the fishing pier on the lee or southeast side of the headland. The area is influenced by river run-off during the winter, particularly when the Eel River is in flood. Since the water is deep around the headland, temperature is representative of this section of coast.

Salt Point State Park

The rangers take daily water temperatures from Gerstle Cove located here. This station took over reporting from the old Fort Ross station some 10 miles further down the coast. Temperatures at both stations are virtually the same and as this is a steep rocky coast, the temperatures are very representative of the coastal waters. Summer upwelling temperatures show this section of the coast to be one of the coldest.

Bodega Bay

The University of California Marine Biological Laboratory located at Horseshoe Cove takes daily water temperatures at the intake pipe to their aquarium water system located in a deep rocky channel on the northern headland of the cove. Since the water is deep and the headland steep and rocky, the temperatures are quite representative of the coastal water. This station continues the coverage provided earlier by Sonoma Coast State Beach.

Farallon Islands

The islands are now part of the Point Reyes National Park and Bird Sanctuary. Personnel stationed on S. E. Farallon, where the Coast Guard lighthouse is located, take daily temperature and salinity samples. Salinity samples are sealed in special bottles supplied by Scripps and mailed back when the supply boat comes out to the island. The boat landing on the southeast side of the island is steep and rocky, so the measurements are very representative of the oceanic waters around the islands. Measurements are interrupted from time to time because of weather, personnel and supply problems caused by the islands' location 26 miles west of the Golden Gate, where they catch the full force of winter storms, and the strong summer northwesterers.

Pacific Grove

Hopkins Marine Station of Stanford University takes daily temperature and salinity samples from a beach on the north side of Point Cabrillo just to the north of their main laboratory buildings. The location is exposed to the northwest swell as it sweeps past Point Pinos and so is very representative of the coastal conditions on the south side of Monterey Bay.

Santa Monica

This tidegauge station is located at the end of the Santa Monica pier near the harbor master's office. Although located behind the breakwater, there is sufficient water flow to make this very representative of the near shore waters.

Point Lobos, North Side - Whalers Cove

Point Lobos State Park is a rocky headland jutting into the Pacific forming the southern shore for Carmel Bay. Whalers Cove is a calm, deep-water nook on the northern in-shore end of the point. As part of Carmel Bay, the water in the cove is a little warmer than out in the ocean during calm weather. During winter, or during the summer north-west wind season, the temperatures are more representative of oceanic conditions offshore.

Point Lobos, South Side - Sand Hill Cove

Conditions on the exposed southern side of the point tend to be rougher and reflect local upwelling in the lee of the point. Temperatures are taken from a deep surge channel on the rocky shore and are very representative of this section of coast. They also show the upwelling effect in the lee of the point.

Morro Bay

The Pacific Gas and Electric Company has a major power generating plant located at the entrance to Morro Bay's harbor mouth. Temperatures are logged from the thermograph that monitors the cooling intake water for the generators. Temperatures are recorded about 8 a.m. every morning, which reduces the effect to tidal heating from back bay water. Since the discharge of hot water is outside the bay, the intake temperatures are quite representative of those found in the southern part of Estero Bay. (The northern part of the bay is generally colder. This condition existed long before the light plant went in and was noted in earlier measurements made by the author.)

Port San Luis Obispo

The Coast and Geodetic Survey's tide gauge station is located on the old fishing pier in the northwest corner of the harbor. Daily temperature and density measurements are sent to Scripps once a month. The old site was on the Avila recreational pier which was a better location. The new location is less subject to storm damage particularly the southeast winter gales. However the counter-clockwise circulation of current in the bay traps the river runoff from San Luis Creek in the northwest corner of the bay behind the breakwater. Salinity differences of 1.03 have been measured between the old and new sites due to this entrapped fresh water. Temperature is also about 0.1° warmer at the new site. The new Pacific Gas and Electric Atomic power plant will have its intake about 1/4 mile from the tide gauge site and so may have some future influence.

Santa Barbara

Personnel of the Harbor Department take daily water temperatures off the breakwater by the corner where it meets the beach. This is done every morning early before the sun heats up the beach, and so gives a representative temperature of the coastal water. Temperatures used to be taken off the harbormaster's dock, but the closing in the harbor no longer made the trapped water representative so the site was moved to the beach corner by the breakwater.

Ventura

The Harbor Department takes daily temperatures and salinity samples from their dock located at the entrance to the Ventura Marina. Measurements are taken in the early morning to reduce the effect of local harbor heating. In spite of local harbor heating, the temperatures seem to be quite representative as this seems to match the heating of the shallow waters offshore. Salinities are influenced by flooding of the Santa Clara River during winter rains as the fresh water gets trapped in the marina.

Point Dume

The Los Angeles County Lifeguards man the station at Zuma Beach County Park west of Point Dume. They take daily water temperatures in the surf every morning before the sun heats up the beach, thus giving very representative temperatures for this section of the coast.

Newport Beach

The lifeguards take daily temperature and salinity samples from their office located on the Newport Beach Pier. Since these samples are taken in deeper water, and not from the surf, they are very representative of coastal conditions. The salinity is affected during winter storms by run off from the Santa Ana River mouth located only a mile or so up the beach from the pier.

San Clemente

Personnel of the San Clemente Beach State Park take daily temperature and salinity samples off the pier. This station was started to take over the temperature monitoring on this section of coast from the old Dana Point, or Doheny Beach Station. The new yacht harbor at Dana Point wiped out the Dana Point station, but the San Clemente Pier site is so similar that the long record for this area is still preserved.

La Jolla

Daily temperature and salinity measurements are made at the end of the Scripps Institution of Oceanography pier. Two levels of measurement are made: surface and 5 meter or bottom. Located at the end of the Scripps Canyon, the temperatures at the end of Scripps Pier fluctuate considerably due to the effect of upwelling cold water surging up and out of the canyon.

Many stations have disappeared in the last 10 years. The automation of Coast Guard light-houses, and elimination of the Blunts Reef lightship off Cape Mendocino has left serious gaps in our coastal coverage. New state parks and new marine laboratories may be able to extend some of our coverage in the future. The participants are all volunteers, people seriously interested in the sea at their doorstep, and it is to these people we owe the success of this long range program.

SURFACE-TEMPERATURE STATIONS
IN GEOGRAPHICAL ORDER

Station Name	Position	Location	Page
<u>Washington</u>			
Neah Bay	48°22.0'N, 124°37.0'W	NOAA/NOS Tide Gauge Station Strait of Juan de Fuca	13
<u>Oregon</u>			
Columbia River Lightship	46°11.2'N, 124°11.0'W	Mouth of Columbia River	15
Seaside Aquarium	45°59.7'N, 123°55.6'W	At pump outlet into Aquarium settling tank from surf inlet pipe	17
Newport Marine Science Center	44°37.2'N, 124°01.5'W	At pump outlet into Laboratory from bottom of Yaquina Bay	19
Charleston	43°21.0'N, 124°19.0'W	From surface of bay	21
Port Orford	42°44.6'N, 124°30.6'W	Off east side of Port Orford River	23
<u>California</u>			
Crescent City	41°44.8'N, 124°11.0'W	NOAA/NOS Tide Gauge Station Crescent City	25
Trinidad Head	41°03.4'N, 124°08.6'W	Trinidad Beach, California State University, Humboldt Marine Laboratory	27
Salt Point State Park	38°34.0'N, 123°19.7'W	Fort Ross State Historic Park Sonoma County	28
Bodega Bay	38°19.0'N, 123°04.3'W	University of California Marine Laboratory	29
Farallon Island, S. E.	37°41.8'N, 122°59.9'W	SE Farallon Island Light Station off San Francisco	30
Pacific Grove	36°37.3'N, 121°54.2'W	Hopkins Marine Station Pacific Grove	32
Point Lobos: north side	36°31.2'N, 121°56.3'W	Point Lobos Reserve State Park Whalers Cove	34
Point Lobos: south side	36°30.8'N, 121°56.7'W	Point Lobos Reserve State Park Sand Hill Cove	35
Morro Bay	35°22.2'N, 120°51.6'W	Pacific Gas and Electric Plant	36
Port San Luis	35°10.3'N, 120°45.2'W	NOAA/NOS Tide Gauge Station Port San Luis Obispo	37
Santa Barbara	34°24.2'N, 119°41.6'W	Harbor Department Santa Barbara	39

<u>Station Name</u>	<u>Position .</u>	<u>Location</u>	<u>Page</u>
<u>California</u> (cont.)			
Ventura Marina	34°14.7'N, 119°15.8'W	Ventura County Small Boat Harbor	40
Point Dume: west of	34°01.1'N, 118°49.5'W	Zuma Beach County Park near Malibu	42
Santa Monica	34°00.0'N, 118°30.0'W	NOAA/NOS Tide Gauge Station Santa Monica	43
Newport Beach	33°36.0'N, 117°54.0'W	Newport Beach Pier	45
San Clemente	33°25.0'N, 117°37.0'W	San Clemente Beach State Park	47
La Jolla: Scripps Pier, surface	32°52.0'N, 117°15.3'W	Scripps Institution of Oceanography La Jolla	49
La Jolla: Scripps Pier, bottom	32°52.0'N, 117°15.3'W	Scripps Institution of Oceanography La Jolla	51

ALPHABETICAL LIST OF
SURFACE-TEMPERATURE STATIONS

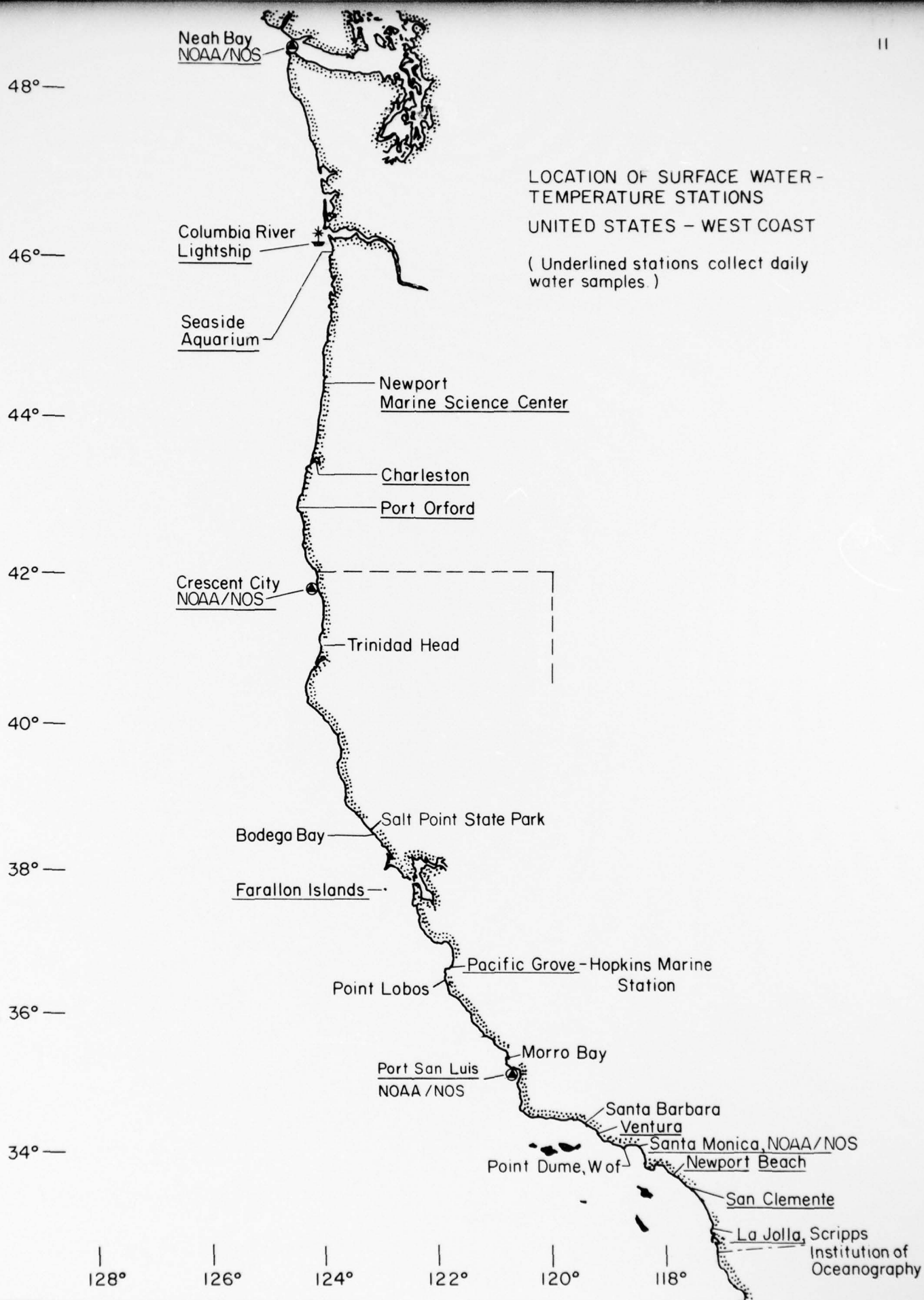
<u>Station Name</u>	<u>Type</u>	<u>Data Collected</u>	<u>Agency</u>	<u>Page</u>
Bodega Bay	T ^{1/}	d ^{2/}	UCML	29
Charleston	TS ^{3/}	d	OSU	21
Columbia River Lightship	TS	d	USCG	15
Crescent City	TS	d	NOAA/NOS	25
Farallon Island, S. E.	TS	d	USCG & PRBO	30
La Jolla: Scripps Pier, surface	TS	d	SIO	49
La Jolla: Scripps Pier, bottom	TS	d	SIO	51
Morro Bay	T	d	PG and E	36
Neah Bay	T	d	NOAA/NOS	13
Newport Beach	TS	d	SIO	45
Newport Marine Science Center	TS	d	OSU	19
Pacific Grove	TS	d	HMS	32
Point Dume: west of	T	d	SIO	42
Point Lobos: north side	T	d	CSP	34
Point Lobos: south side	T	d	CSP	35
Port Orford	TS	d	OSU	23
Port San Luis	T	d	NOAA/NOS	37
Salt Point	T	d	CSP	28
San Clemente	TS	d	SIO	47
Santa Barbara	T	d	SIO	39
Santa Monica	T	d	NOAA/NOS	43
Seaside Aquarium	TS	d	OSU	17
Trinidad Head	T	d	CSU	27
Ventura Marina	TS	d	SIO	40

CSP:	California State Park System
CSU:	California State University
HMS:	Hopkins Marine Station, Pacific Grove, California
NOAA/NOS:	National Oceanic and Atmospheric Administration/National Ocean Survey
OSU:	Oregon State University, Corvallis, Oregon
PG and E:	Pacific Gas and Electric Company
PRBO:	Point Reyes Bird Observatory
SIO:	University of California, Scripps Institution of Oceanography, La Jolla, California
UCML:	University of California Marine Laboratory
USCG:	United States Coast Guard

^{1/}T: Surface temperatures

^{2/}d: Values taken daily

^{3/}S: Surface salinities



NEAH BAY												TEMPERATURE												YEAR 1974												ANNUAL								
																																				MEAN			MAX			MIN		
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC																																
1	6.9	6.7	7.2	8.6	8.6	10.0	9.7	11.7	12.5	11.4	8.9	8.9																																
2	6.4	6.9	6.9	8.9	8.9	11.1	10.0	13.6	12.2	9.4	8.9	8.6																																
3	5.8	7.5	6.7	9.2	8.3	10.0	11.1	12.8	11.7	9.7	8.6	8.9																																
4	5.3	7.5	6.9	9.2	8.6	10.6	10.6	12.8	10.6	9.7	8.6	8.9																																
5	5.3	7.2	6.9	8.9	8.9	9.4	18.6	12.5	10.6	9.4	8.9	9.2																																
6	4.7	7.2	6.9	8.3	8.3	9.4	10.6	12.8	10.6	10.0	8.6	9.7																																
7	4.7	7.5	6.9	8.3	9.4	9.7	12.2	12.8	11.1	10.6	9.2	9.2																																
8	5.3	7.5	6.7	8.3	8.9	10.3	11.7	12.2	11.7	10.7	9.4	9.2																																
9	5.8	7.2	7.2	8.9	8.9	10.3	10.6	13.6	12.5	9.4	9.4	9.4																																
10	6.1	6.9	7.2	8.9	8.9	10.0	10.8	11.2	12.8	9.4	9.2	9.4																																
11	6.1	6.9	7.2	8.9	9.7	11.7	10.3	11.7	11.7	9.2	9.4	9.4																																
12	5.8	7.2	7.5	8.6	9.2	10.8	9.7	13.3	12.2	10.0	9.7	9.2																																
13	6.4	7.2	7.2	8.6	9.2	11.4	10.3	13.3	12.8	9.4	10.0	8.9																																
14	6.9	7.2	7.2	9.2	9.7	10.8	12.5	12.8	12.2	9.2	10.0	8.9																																
15	7.2	7.5	6.9	8.6	9.2	10.3	12.8	12.5	10.6	8.9	9.7	8.9																																
16	7.8	7.5	7.2	8.6	9.4	9.7	10.6	11.8	11.7	8.6	9.4	9.2																																
17	7.2	7.8	7.2	8.6	9.7	12.2	12.8	11.9	11.7	8.9	9.4	8.9																																
18	7.2	7.5	7.5	8.6	10.0	11.7	11.7	11.7	10.3	9.2	9.2	8.9																																
19	6.9	7.5	7.8	8.6	9.4	12.8	15.0	11.1	10.6	8.9	8.9	8.9																																
20	6.9	7.2	7.8	8.6	10.6	11.4	16.7	12.2	10.0	8.9	9.2	8.9																																
21	7.2	7.2	7.2	8.6	12.2	12.5	11.7	10.0	10.8	8.9	8.9	9.2																																
22	7.5	7.5	7.8	8.9	10.3	11.1	11.1	10.6	11.7	8.6	8.9	8.3																																
23	7.8	7.2	7.8	8.3	10.3	10.8	11.7	9.4	13.3	8.9	8.6	8.3																																
24	7.8	6.7	7.8	9.4	10.3	10.3	11.9	9.4	11.7	8.9	9.4	8.6																																
25	7.5	7.2	7.8	8.6	11.1	11.1	12.2	11.4	9.4	9.2	9.7	8.6																																
26	7.2	6.9	7.8	8.6	11.7	10.6	11.7	12.2	10.6	8.9	9.2	8.3																																
27	7.8	6.9	8.3	8.6	12.2	8.9	12.5	13.1	10.3	9.2	9.2	8.3																																
28	7.5	7.2	8.3	8.6	12.8	10.0	10.3	11.1	10.6	9.4	8.6	8.1																																
29			8.3	10.0	11.7	10.8	12.2	10.8	10.3	8.9	8.6	8.1																																
30	7.5		8.3	9.4	11.1	10.0	10.8	10.3	10.8	8.9	9.2	7.8																																
31	6.7		8.6		11.1		13.1	11.9		8.9		7.8																																
1-10 MEANS	5.63	7.21	6.96	8.73	8.82	10.08	11.59	12.58	11.74	9.97	8.97	9.14																																
SAMPLE SIZE	10	10	9	9	9	10	10	9	9	10	10	10																																
11-20 MEANS	6.84	7.35	7.35	8.69	9.61	11.28	12.30	12.23	11.38	9.11	9.49	9.04																																
SAMPLE SIZE	10	10	10	10	10	10	9	10	10	9	10	8																																
21-31 MEANS	7.45	7.10	8.08	8.90	11.45	10.61	11.75	10.93	10.95	8.97	9.08	8.28																																
SAMPLE SIZE	10	8	10	10	10	10	11	11	10	11	9	10																																
MONTHLY MEANS	6.64	7.23	7.48	8.78	10.00	10.66	11.86	11.86	11.34	9.35	9.18	8.80																																
SAMPLE SIZE	30	28	29	29	29	30	30	30	29	30	29	28																																
MAXIMUM VALUE	7.8	7.8	8.6	10.0	12.8	12.8	18.6	13.6	13.3	11.4	10.0	9.7																																
18.6																																												
MINIMUM VALUE	4.7	6.7	6.7	8.3	8.3	8.9	9.7	9.4	9.4	8.6	8.6	7.8																																
4.7																																												
RANGE	3.1	1.1	1.9	1.7	4.5	3.9	8.9	4.2	3.9	2.8	1.4	1.9																																
STANDARD DEV.	.95	.28	.54	.39	1.25	.93	1.98	1.16	.98	.65	.41	.51																																

YEAR 1974

SALINITY

NEAH BAY

DATA OMITTED - SEE INTRODUCTION

COLUMBIA RIVER										TEMPERATURE				YEAR 1974				ANNUAL		
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN					
1	8.8								13.5											
2	8.4			10.2	9.7				13.8											
3				10.0	10.6				16.5											
4				11.1	12.2				16.5											
5					11.6				16.0											
6				11.0	10.6	14.0			15.5											
7	6.6	8.6		11.5	10.0	13.8			15.2											
8	6.5	9.2			11.1	14.0			14.5											
9	6.0	9.2		11.3	10.0	12.0			15.9											
10	6.5	8.3		11.1	10.0	14.0			16.2											
11	5.5	8.3		11.2	11.6	13.9			15.5											
12	6.5	8.6		11.2	11.4	14.0			16.0											
13		8.3		10.6	11.6	13.0			15.8											
14		8.9		11.3	10.0	15.0			15.9											
15		8.9		11.0	10.6	15.0														
16				10.8	11.1	13.8														
17		9.2		10.9	11.1	14.0			14.2											
18			8.9	9.9	11.6	12.1														
19		10.1	8.6	10.0	11.1	11.2			14.0											
20		10.0	9.0	9.9		10.0			13.8											
21		9.4	10.3	9.7	12.2	12.2														
22		9.7	10.0	10.1		11.2			15.8											
23		8.9	10.3	9.5		12.4			16.8											
24		10.0	9.6	8.9		12.5			16.0											
25			9.4	10.1		11.0			15.0											
26		8.6		10.0	11.6	12.1			15.5											
27			10.0	11.1	10.0	12.2			13.4											
28			9.2	9.4	11.1	12.2			14.0											
29			9.6	9.9	10.8	14.0			13.4											
30			9.4	10.0		14.0			13.4											
31			9.6																	
1-10 MEANS	7.13	8.82		10.89	10.64	13.56			15.36											
SAMPLE SIZE	6	4		7	9	5			10											
11-20 MEANS	6.00	9.04	8.83	10.68	11.12	13.20			15.03											
SAMPLE SIZE	2	8	3	10	9	10			7											
21-31 MEANS		9.32	9.74	9.87	11.14	12.38			14.81											
SAMPLE SIZE		5	10	10	5	10			9											
MONTHLY MEANS	6.85	9.07	9.53	10.43	10.94	12.94			15.08											
SAMPLE SIZE	8	17	13	27	23	25			26											
MAXIMUM VALUE	8.8	10.1	10.3	11.5	12.2	15.0			16.8											
MINIMUM VALUE	5.5	8.3	8.6	8.9	9.7	10.0			13.4											
RANGE	3.3	1.8	1.7	2.6	2.5	5.0			3.4											
STANDARD DEV.	1.15	.61	.53	.70	.74	1.32			1.12											

COLUMBIA RIVER				SALINITY				YEAR 1974				ANNUAL		MIN	
												MEAN			
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
1	29.6								28.7						
2	29.8			30.9	33.0				29.3						
3				30.4	32.4				31.1						
4				30.1	33.5				31.1						
5					34.0				30.4						
6				31.9	34.0	22.8			28.7						
7				33.7	33.1	22.2			29.8						
8	28.4				33.0	21.0			28.9						
9	27.7			32.6	33.6	20.4			28.6						
10	30.0				32.1	20.6			29.8						
11	29.0														
12	27.2			32.3		21.5			31.6						
13	31.0			33.2		20.8			26.7						
14				33.1	33.1	22.4			28.0						
15				33.7	34.0	20.8			26.2						
16				32.3	33.5	22.2									
17				33.1	33.1	22.2			28.0						
18			32.1	31.5	34.2	21.0									
19			31.5	32.6	31.9	20.4			27.9						
20			27.0	32.4		28.7			28.7						
21			25.4	33.1	19.7	25.6									
22			26.1	32.8		22.0			30.9						
23			25.0	33.4		20.0			30.0						
24			25.4	32.4		20.1			29.9						
25			28.2	32.8		23.6			28.2						
26				33.2	28.3	23.2			28.3						
27			29.7	32.4	20.1	24.2			26.3						
28			31.0	33.2	24.0	25.3			29.4						
29			31.8	32.6	23.7	19.6			27.6						
30			33.1	32.1		19.7			28.7						
31			30.5												
1-10 MEANS	29.08			31.60	33.19	21.40			29.64						
SAMPLE SIZE	6			6	9	5			10						
11-20 MEANS	29.10		30.20	32.69	33.30	22.18			28.16						
SAMPLE SIZE	2		3	9	6	10			7						
21-31 MEANS			28.62	32.80	23.16	22.33			28.81						
SAMPLE SIZE			10	10	5	10			9						
MONTHLY MEANS	29.09		28.98	32.47	30.71	22.08			28.95						
SAMPLE SIZE	8		13	25	20	25			26						
MAXIMUM VALUE	31.0		33.1	33.7	34.2	28.7			31.6						
MINIMUM VALUE	27.2		25.0	30.1	19.7	19.6			26.2						
RANGE	3.8		8.1	3.6	14.5	9.1			5.4						
STANDARD DEV.	1.27		2.92	.93	4.79	2.13			1.44						

SEASIDE TEMPERATURE YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	8.4	9.0	8.5	9.7		13.0		13.8	15.1	11.5	10.6				
2		9.2		9.5				12.7	16.6	12.7	10.3	10.8			
3		9.0	7.6	9.6	10.7	13.7	12.7	10.7	15.7						
4		9.2	8.8		11.0	12.3	13.5	11.1		11.9					
5	8.4	8.9	8.6	9.7	10.3		13.6	11.4	17.5	11.6					
6			9.2				12.5	11.5		11.2					
7	8.0			9.9	11.5		13.7	12.7	15.5	13.7		10.8			
8	7.8	8.8					13.2	13.5	15.4			10.5			
9		8.9	8.3	10.3	12.2	13.2	13.5	13.7	15.4	12.7	10.7	10.6			
10		8.6		10.2	12.4	13.6		13.2	14.3			10.6			
11	7.8	8.7		10.3	12.5	12.4	15.0	12.8	12.9			10.6			
12	8.5	8.3			12.3		15.0	16.0		12.2	11.5				
13		9.2	9.3		11.9	13.2	12.2	14.5	11.6	12.9	11.5	10.2			
14	9.4				11.4	13.9	14.5	14.9				10.2			
15		8.8					13.8	15.0	14.9		11.6	10.4			
16			9.5			11.5	14.2	14.5		10.7	11.4				
17		8.8	9.2			12.2	13.4								
18	9.4	8.8		9.5		10.7	14.7	13.2		12.0					
19	9.3	8.6	9.3				14.8	15.3		10.7					
20				10.0		12.2	16.0	14.9	12.2	11.3	11.2	11.0			
21	8.6			10.4	13.5	11.5	16.3	13.9	13.5	10.3					
22		8.4	9.4	11.2	13.8	11.7	16.3		14.5		10.4				
23	9.1			10.8		12.2	15.8	15.8			10.8				
24		8.3		10.8	12.8	11.5	14.7	16.8	11.0		11.0				
25	9.2		9.8		13.1	10.5	13.9	14.5		10.2					
26	9.2	8.1	9.9	11.2	13.3	12.0		13.6		11.2	10.4	9.5			
27	8.4	8.5		11.0	13.3			11.5	11.1	11.4	10.3				
28	8.4					14.5	12.0	12.0	11.7	10.8		9.1			
29			10.2			13.2	14.0	13.8	11.2	10.1					
30				11.0					13.5	9.8	10.3	9.1			
31			9.7			12.8	15.6								
1-10 MEANS	8.15	8.95	8.50	9.84	11.35	13.16	13.24	12.43	15.69	12.19	10.53	10.66			
SAMPLE SIZE	4	8	6	7	6	5	7	10	8	7	3	5			
11-20 MEANS	8.94	8.67	9.32	9.82	12.02	12.30	14.47	14.45	12.90	11.63	11.44	10.45			
SAMPLE SIZE	7	6	4	4	4	7	9	10	4	6	5	4			
21-31 MEANS	8.82	8.32	9.80	10.91	13.30	12.21	15.13	13.99	12.36	10.54	10.53	9.23			
SAMPLE SIZE	6	4	5	7	6	9	6	8	7	7	6	3			
MONTHLY MEANS	8.71	8.72	9.15	10.26	12.25	12.47	14.26	13.60	13.87	11.44	10.86	10.23	11.32		
SAMPLE SIZE	17	18	15	18	16	21	22	28	19	20	14	12			
MAXIMUM VALUE	9.4	9.2	10.2	11.2	13.8	14.5	16.3	16.8	17.5	13.7	11.6	11.0	17.5		
MINIMUM VALUE	7.8	8.1	7.6	9.5	10.3	10.5	12.2	10.7	11.0	9.8	10.3	9.1	7.6		
RANGE	1.6	1.1	2.6	1.7	3.5	4.0	4.1	6.1	6.5	3.9	1.3	1.9			
STANDARD DEV.	.55	.31	.69	.62	1.05	1.05	1.16	1.55	1.99	1.04	.50	.65			

SEASIDE		SALINITY												YEAR 1974			ANNUAL		MIN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN		MAX			
DAYS																			
1	24.6	27.0	29.7	30.9	29.0				30.8	30.6	31.4	31.2							
2	29.3	29.3	29.8	29.8					31.6	27.4	31.3	31.3	32.1						
3	27.3	29.0	29.0	29.0	23.7	28.9		31.7	32.1	28.0									
4	28.2	29.3	29.3	29.3	27.3	24.0		29.2	32.1		30.8								
5	30.6	29.8	29.6	29.4	30.8			29.0	32.2	28.2	31.7								
6			29.8					31.3	32.5		31.9								
7	30.8				23.9			30.0	32.5	30.5	31.7		31.2						
8	31.0	29.3						30.3	31.4	29.7			30.9						
9		28.9	29.4	29.0	23.0	28.5		26.4	31.7	30.2	31.9		30.9						
10		29.3		29.0	23.9	29.2		31.3	30.5			30.9	30.9						
11	28.0	28.1		28.1	18.9	30.3		26.2	32.1	30.8									
12	30.3	24.4			20.5			28.1	29.8		30.5	31.3							
13	29.8		30.1		20.4	29.8		27.0	27.0	29.2	30.5	31.3	29.8						
14	30.5				20.2	29.0		28.7	26.6				29.0						
15		29.3						28.5	24.4	30.6			28.4						
16			29.8					28.1	26.8		31.9	30.8							
17		28.5	29.6					31.6	30.5										
18	29.0	30.3		31.2				33.1	30.6		31.8								
19	28.9	30.3	29.4	31.2				28.9	27.0		31.4								
20	29.0			23.6		30.0		29.0	27.0	31.2	29.8	31.0	29.7						
21	28.9			26.2	23.1	31.0		29.7	30.6	31.2	31.3								
22		29.4	28.2	24.9		31.3		29.2		30.6		29.8							
23	26.1			24.9		32.4			28.6			31.2							
24		28.4		25.2		32.5		30.0	30.1	29.7		30.1							
25	29.6		23.4		24.3			31.3	29.2		30.8								
26	26.0	29.7	26.4	27.3	26.5	32.4			31.2		30.2	28.6	29.2						
27	20.1	29.7		26.2	27.7				32.5	30.9	29.7	28.4							
28	17.8								33.4	31.7	30.1		28.5						
29			30.8			28.7		31.2	30.6	31.0	31.4								
30				27.4		29.0				31.7	31.3	30.0	29.3						
31			30.5					29.2											
1-10 MEANS	29.25	28.64	29.47	29.73	25.43	27.92	29.70	31.82	29.39	31.53	31.13	31.20							
SAMPLE SIZE	4	8	6	7	6	5	7	10	8	7	3	5							
11-20 MEANS	29.36	28.48	29.73	28.52	20.00	30.69	28.21	28.18	30.45	30.98	30.92	29.23							
SAMPLE SIZE	7	6	4	4	4	7	9	10	4	6	5	4							
21-31 MEANS	24.75	29.30	27.86	26.01	25.24	30.90	30.10	30.78	30.97	30.69	29.68	29.00							
SAMPLE SIZE	6	4	5	7	5	9	6	8	7	7	6	3							
MONTHLY MEANS	27.71	28.73	29.00	28.02	23.92	30.12	29.20	30.22	30.19	31.07	30.44	29.99	29.05						
SAMPLE SIZE	17	18	15	18	15	21	22	28	19	20	14	12							
MAXIMUM VALUE	31.0	30.3	30.8	31.2	30.8	33.1	31.7	33.4	31.7	31.9	31.3	32.1	33.4						
MINIMUM VALUE	17.8	24.4	23.4	23.6	18.9	24.0	26.2	24.4	27.4	29.7	28.4	28.4	17.8						
RANGE	13.2	5.9	7.4	7.6	11.9	9.1	5.5	9.0	4.3	2.2	2.9	3.7							
STANDARD DEV.	3.78	1.42	1.86	2.42	3.22	2.05	1.49	2.30	1.22	.72	.97	1.18							

NEWPORT				TEMPERATURE												YEAR 1974			ANNUAL		
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN						
1																					
2				10.6																	
3																					
4	10.2	10.3																			
5			9.8																		
6																					
7								10.9													
8																					
9	8.1																				
10																					
11		10.1																			
12																					
13																					
14																					
15																					
16																					
17	10.9																				
18		9.8		15.4																	
19			10.0	15.0																	
20																					
21	10.9																				
22		9.3																			
23	10.5																				
24																					
25		9.9	10.6																		
26			10.9																		
27																					
28	10.8																				
29																					
30																					
31																					
1-10 MEANS	9.15	10.30	9.80	10.60				10.90													
SAMPLE SIZE	2	1	1	1				1													
11-20 MEANS	10.90	9.95	10.00	15.20																	
SAMPLE SIZE	1	2	1	2																	
21-31 MEANS	10.73	9.60	10.75																		
SAMPLE SIZE	3	2	2																		
MONTHLY MEANS	10.23	9.88	10.32	13.67				10.90													
SAMPLE SIZE	6	5	4	3				1													
MAXIMUM VALUE	10.9	10.3	10.9	15.4				10.9													
MINIMUM VALUE	8.1	9.3	9.8	10.6																	
RANGE	2.8	1.0	1.1	4.8																	
STANDARD DEV.	1.08	.38	.51	2.66																	

DAYS	NEWPORT				SALINITY				YEAR 1974				ANNUAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX MIN
1														
2				28.2										
3														
4	31.5	29.7												
5			28.4											
6														
7								33.6						
8														
9	31.7													
10														
11		32.0												
12														
13														
14														
15														
16														
17	28.9													
18		30.0		31.7										
19			31.6	31.8										
20														
21	30.1													
22		28.4												
23	28.2													
24														
25		29.2	31.4											
26			30.5											
27														
28	29.8													
29														
30														
31														
1-10 MEANS	31.60	29.70	28.40	28.20				33.60						
SAMPLE SIZE	2	1	1	1				1						
11-20 MEANS	28.90	31.00	31.60	31.75										
SAMPLE SIZE	1	2	1	2										
21-31 MEANS	29.37	28.80	30.95											
SAMPLE SIZE	3	2	2											
MONTHLY MEANS	30.03	29.86	30.47	30.57				33.60						
SAMPLE SIZE	6	5	4	3				1						
MAXIMUM VALUE	31.7	32.0	31.6	31.8				33.6						
MINIMUM VALUE	28.2	28.4	28.4	28.2				33.6						
RANGE	3.5	3.6	3.2	3.6				0						
STANDARD DEV.	1.39	1.34	1.46	2.05				0						

CHARLESTON

TEMPERATURE

YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1					10.1		13.0	13.7		10.5	10.5				
2				10.0	10.9		12.4	15.0		11.3		10.8			
3	8.3			10.1	11.1	10.5	11.0		13.5	11.3					
4	7.6		9.0	10.3		10.1			14.4	11.2	10.2	10.6			
5		9.2	9.1	10.3		10.5	13.0	12.4	14.6		10.5	10.5			
6		9.4			10.3	11.3		12.6			11.1	10.9			
7	7.9	9.4	9.4		10.6	12.2		12.4		10.1					
8	7.9	9.7	9.4	10.8	12.6		9.9	13.8		10.0	10.5				
9	8.3			10.8	10.4		10.9	12.5	14.8	10.3		10.8			
10	8.3			10.6	11.2	12.1	12.6		14.5	9.9					
11	7.9	9.2	9.6	11.2		11.8	13.7		14.9	10.4					
12		9.8	9.3	11.5			15.6	10.1	12.9		11.1				
13			9.0		9.9	9.5		10.1	11.8		10.9				
14		8.7		10.3	10.7	9.8		11.7		11.3	11.3				
15		9.1		10.6			12.5	11.7		10.2	10.7				
16	10.2			10.6	11.3	11.2	13.8	12.6	12.1	9.9		11.4			
17	9.6			10.6					11.3	10.2					
18	10.5		8.9	9.9		11.0			11.8	9.9		11.3			
19		9.5	9.5	9.9		8.9	15.7	13.0	11.2		10.5	11.5			
20		9.3			13.5	12.0		13.3	10.3						
21	9.9	9.0	9.7		12.4	10.5		12.6		10.3					
22	9.7	8.9	9.7	10.1	13.1		13.7	12.1	10.0	9.5	10.1				
23				10.4	12.7		15.4		10.8	9.7		10.5			
24	10.5			10.4	12.9	13.2			11.0	9.6		10.3			
25	10.3	9.6	9.9	10.4		10.1			11.7		10.5	10.2			
26		9.2	10.1	11.7		9.6	12.8	13.6	12.1						
27		8.9	10.0					11.9	12.1	10.3		10.0			
28	9.9	9.2	10.4			10.8		12.1							
29	9.7			11.1	8.9		11.2	12.2		10.6	10.2				
30	9.7				10.6		12.2	12.0	11.1	10.0		9.9			
31					10.4					10.8		9.7			
1-10 MEANS SAMPLE SIZE	8.05 6	9.42 4	9.22 4	10.41 7	10.90 8	11.12 6	11.83 7	13.20 7	14.36 5	10.58 8	10.56 5	10.73 6			
11-20 MEANS SAMPLE SIZE	9.55 4	9.26 5	9.27 6	10.57 7	11.35 4	10.60 7	13.93 6	11.79 7	12.04 8	10.32 6	10.90 5	11.38 4			
21-31 MEANS SAMPLE SIZE	9.94 8	9.13 6	10.01 7	10.68 6	11.57 7	10.84 5	13.06 5	12.36 7	11.12 6	10.12 9	10.27 3	10.10 6			
MONTHLY MEANS SAMPLE SIZE	9.22 18	9.25 15	9.56 17	10.55 20	11.24 19	10.84 18	12.87 18	12.45 21	12.36 19	10.33 23	10.62 13	10.66 16	10.83		
MAXIMUM VALUE	10.5	9.8	10.4	11.7	13.5	13.2	15.7	15.0	14.9	11.3	11.3	11.5	15.7		
MINIMUM VALUE	7.6	8.7	8.9	9.9	8.9	8.9	9.9	10.1	10.0	9.5	10.1	9.7			7.6
RANGE	2.9	1.1	1.5	1.8	4.6	4.3	5.8	4.9	4.9	1.8	1.2	1.8			
STANDARD DEV.	1.03	.31	.46	.51	1.26	1.12	1.61	1.12	1.62	.54	.38	.55			

CHARLESTON		SALINITY												YEAR 1974		ANNUAL	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN	MEAN	MIN
1					31.1		31.9	32.0		32.8	31.9						
2				28.5	30.7		31.9	31.9		32.4		31.1					
3	29.7			27.8	29.9	32.0	32.8		32.4	32.8		31.3					
4	28.7		30.1	29.7		32.4			32.3	32.4	32.4	31.3					
5		29.3	28.8	28.7		31.9	31.9	32.4	32.2		32.0	31.3					
6		30.1			32.3	31.6		32.4									
7	31.5	29.8	30.9		31.9	31.3		32.4		32.9							
8	31.0	31.3	30.9	29.2	29.5		32.9	32.3		33.2	31.9						
9	31.4			29.2	32.0		32.8	32.2	32.3	32.7		31.1					
10	31.3			29.5	31.6	30.2	31.9		31.9	32.4							
11	31.1	31.6	29.9	28.0		30.7	31.6	33.2	31.8	32.7							
12		28.4	30.5	18.4			31.4		32.4		32.0						
13			29.3			32.7		33.0	32.8		32.0						
14		31.5			31.4	32.4		33.0		32.9	32.4						
15		31.4		26.4	30.3		32.7	32.7		32.3	31.8						
16	28.5			28.1			32.4	32.2	32.3	32.8		30.5					
17	27.2			31.4	30.5	31.3	32.3		32.7	32.8		30.6					
18	27.6			29.7		31.3			32.8	32.9		30.5					
19		27.6	20.0			32.8	28.1	32.3									
20		25.6	27.2	31.0	27.9	31.9		32.7	33.3		32.0	30.6					
21	29.7	29.5	31.4		27.4	32.0		32.9		33.0							
22	28.1	29.5	30.9	30.9	27.6		32.0										
23	28.1			30.7	29.2		31.6		32.7	33.0	31.8						
24	29.8			31.6	28.8	31.5		32.9	32.7	33.0		31.9					
25	28.9			31.6		32.7			33.2	33.0		31.3					
26		28.8	31.0	30.6		32.8	32.0	32.3	32.7	32.4	30.5	31.1					
27		28.8	31.3			32.3		33.3	32.4			30.7					
28	29.7	29.9	31.0			32.3		32.4	32.3	32.7							
29	29.2		29.9		32.8		32.9	32.4		32.2	31.1						
30	28.0			30.9	29.3		32.4	32.4	32.3			30.5					
31					31.9				32.2			30.2					
1-10 MEANS	30.60	30.13	30.17	28.94	31.13	31.57	32.30	32.23	32.22	32.70	32.18	31.18					
SAMPLE SIZE	6	4	4	7	8	6	7	7	5	8	5	6					
11-20 MEANS	28.60	30.10	27.08	27.57	30.02	31.87	31.42	32.73	32.64	32.73	32.04	30.55					
SAMPLE SIZE	4	5	6	7	4	7	6	7	8	6	5	4					
21-31 MEANS	28.94	29.30	30.94	31.05	29.57	32.26	32.18	32.66	32.60	32.52	31.13	30.95					
SAMPLE SIZE	8	6	7	6	7	5	5	7	6	9	3	6					
MONTHLY MEANS	29.42	29.79	29.40	29.09	30.32	31.88	31.97	32.54	32.52	32.64	31.88	30.94	31.03				
SAMPLE SIZE	18	15	17	20	19	18	18	21	19	23	13	16					
MAXIMUM VALUE	31.5	31.6	31.4	31.6	32.8	32.8	32.9	33.3	33.3	33.2	32.7	31.9	33.3				
MINIMUM VALUE	27.2	27.6	20.0	18.4	27.4	30.2	28.1	31.9	31.8	32.0	30.5	30.2					18.4
RANGE	4.3	4.0	11.4	13.2	5.4	2.6	4.8	1.4	1.5	1.2	2.2	1.7					
STANDARD DEV.	1.39	1.21	2.88	2.90	1.65	.74	1.08	.39	.40	.32	.56	.44					

PCRT ORFORD			TEMPERATURE												YEAR 1974				ANNUAL		
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN						
1	10.8	8.8																			
2	10.6	9.0																			
3	10.0		8.8																		
4	9.4																				
5	9.6																				
6	9.0																				
7	8.6		8.4																		
8	9.2	8.6																			
9	8.9	9.0																			
10	8.8	10.4																			
11	8.6																				
12		10.2																			
13	8.8	10.0																			
14	8.8	9.8																			
15	8.9	9.6																			
16	9.2	9.6																			
17	9.6	9.8																			
18	9.6	10.0																			
19	9.8																				
20	10.0																				
21	9.6																				
22	10.2	9.4																			
23	10.5	9.8																			
24	10.6																				
25	10.8	9.8																			
26	9.8	9.4																			
27	9.6	9.2																			
28	9.8																				
29																					
30																					
31																					
1-10 MEANS	9.49	9.16	8.60																		
SAMPLE SIZE	10	5	2																		
11-20 MEANS	9.26	9.86																			
SAMPLE SIZE	9	7																			
21-31 MEANS	10.11	9.52																			
SAMPLE SIZE	8	5																			
MONTHLY MEANS	9.60	9.55	8.60																		
SAMPLE SIZE	27	17	2																		
MAXIMUM VALUE	10.8	10.4	8.8																		
MINIMUM VALUE	8.6	8.6	8.4																		
RANGE	2.2	1.8	.4																		
STANDARD DEV.	.68	.50	.28																		

[illegible]

CRESCENT CITY TEMPERATURE YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	10.8	10.3	8.9	10.6	10.3	12.2	11.1	16.1	14.2	13.9	11.1				
2	8.1						12.2	15.3	14.4	13.6		10.8			
3	8.9	10.0		11.9		11.9	16.1	16.9	15.6	14.4					11.1
4	6.9	10.0		13.1			13.9	16.7	16.1	11.7	10.8				10.6
5	7.8	9.7	9.2	11.4		13.1	12.5	16.7	15.6		11.1	10.8			
6	6.9	9.4	9.4		12.5	11.1	13.6	17.2	16.1	11.9	11.1	10.8			
7	8.6	10.3	9.7		12.5		12.5	17.2	15.8	12.5	11.7				
8	8.9					10.0		14.4	17.2	12.5	11.1				
9	7.8		9.4		10.8		15.8	13.3	15.3	13.3		11.4			
10	8.1		11.1		11.1		16.7	13.3	15.8	13.3		11.1			
11	7.8	9.2	9.4	10.8			16.9	14.4	13.1	12.8	11.1	11.4			
12		8.9	9.4	11.1			13.9	14.4	11.7		11.9	11.4			
13		8.9	9.4		10.0		13.6	16.4	12.5	12.5	11.1	10.8			
14	10.6				9.4		14.4	15.6	13.1		11.1				
15	10.8			11.7		14.4	14.7	15.3	13.9	13.1					
16	11.1			11.7	10.0		15.3	14.7	13.6	14.4	11.4				
17	11.4			10.6	11.1		16.4	15.0	13.3	13.6		11.1			
18	11.1	9.2	11.7			13.9	14.2	15.8	13.9	13.6	11.1	10.8			
19		9.7	10.0	10.0		13.9	17.8	14.4	13.9		11.1				
20		8.9			12.2	13.3	17.8	14.4	14.7		10.8	11.1			
21	10.3	8.6	12.5	11.1		13.1	15.6	15.0		12.5	10.6				
22	10.3	8.3			10.8	12.8	15.0	16.1	13.1	11.9	10.8				
23	10.6			10.6	13.6	14.2	14.7	13.9	13.1			10.6			
24	10.8			10.6	11.1	14.4	13.3	12.8	12.2			10.6			
25	9.7	9.2	11.1	11.1		15.0	18.6	14.2	12.8	11.9					
26		9.4	11.1	11.7		14.4	15.3	14.7	13.1		10.8	10.0			
27		8.9	10.8				17.5	14.4	12.5		11.1				
28	9.7	8.9	11.1		10.6	12.5	14.2	15.0	12.2	11.9					
29	10.0		11.1	13.1	11.1	13.9	15.3	13.6	13.1	11.7	11.4	9.7			
30	10.0		11.1	12.5	10.6	14.2		14.4		11.1		8.6			
31	10.0					16.4	15.0			11.1					
1-10 MEANS	8.28	9.95	9.32	11.75	11.44	11.66	13.82	15.71	15.61	13.01	11.15	10.94			
SAMPLE SIZE	10	6	5	4	5	5	9	10	10	9	6	7			
11-20 MEANS	10.47	9.20	9.88	10.98	10.54	14.02	15.50	15.04	13.37	13.33	11.20	11.14			
SAMPLE SIZE	6	8	6	6	5	6	10	10	10	6	8	7			
21-31 MEANS	10.16	8.88	11.26	11.53	11.30	13.83	15.84	14.51	12.84	11.79	10.94	9.90			
SAMPLE SIZE	9	6	7	7	6	9	9	11	8	8	5	5			
MONTHLY MEANS	9.48	9.33	10.26	11.39	11.11	13.34	15.07	15.07	14.02	12.67	11.12	10.74	11.97		
SAMPLE SIZE	25	20	18	17	16	20	28	31	28	23	19	19			
MAXIMUM VALUE	11.4	10.3	12.5	13.1	13.6	15.0	18.6	17.2	17.2	14.4	11.9	11.4	18.6		
MINIMUM VALUE	6.9	8.3	8.9	10.0	9.4	10.0	11.1	13.3	11.7	11.1	10.6	8.6	6.9		
RANGE	4.5	2.0	3.6	3.1	4.2	5.0	7.5	3.9	5.5	3.3	1.3	2.8			
STANDARD DEV.	1.38	.54	1.05	.89	1.10	1.28	1.84	1.15	1.42	.97	.31	.69			

CRESCENT CITY										SALINITY										YEAR 1974				ANNUAL		ANNUAL			
																								MEAN		MAX		MIN	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC																	
1	30.3	24.9	23.2	16.8	33.6	27.7	33.7	33.3	32.3	32.9	33.7	32.0																	
2	24.8						34.1	32.3	33.1	33.1																			
3	26.0			16.0		29.7	30.8	32.0	33.2	33.0																			
4	27.3	30.8		14.1			32.5	31.6	32.9	33.7	33.1	30.0																	
5	26.1	31.2	24.0	19.4		26.9	32.4	32.4	33.1																				
6	26.9	32.8	26.0		30.8	32.5	33.1	32.3	32.0	34.2	33.6	30.6																	
7	29.7	32.5	31.4		31.5		33.1	32.8	31.6	34.1	32.7																		
8	29.0	32.5				34.5		33.7	30.6	33.6	32.5																		
9	26.1		29.0		33.2		29.9	33.4	32.9	33.4		31.2																	
10	28.0				33.6		29.9	32.9	33.6	33.2		31.9																	
11	28.9	27.2	27.8	29.3			31.0	32.5	33.7	33.1	32.8	29.1																	
12		25.9	26.1	31.2			32.5	32.5	34.5		31.7	28.6																	
13		26.1	26.0		34.6		33.1	32.7	33.4	33.4	32.9	27.8																	
14	25.9	24.3	24.6		33.4	26.0	32.8	32.3	32.8		32.7																		
15	22.9	26.4		28.6		28.5	33.2	32.9	33.3	33.3	32.8																		
16	17.7			32.3	30.4		33.6	33.1	32.5	32.1		29.7																	
17	15.1			28.2	29.0	30.8	32.9	31.4	32.3	32.5		30.2																	
18	15.2	24.2	29.0			30.7	31.2	31.5	32.4	32.5	32.5	30.3																	
19		24.3	31.7	33.7		30.6	30.8	32.7	32.3		32.5																		
20		28.7			31.5	32.0	31.5	33.2	32.5		32.4	29.7																	
21	30.2	23.8		32.4		32.3	32.4	33.6	32.4	33.4	31.6																		
22	31.2	25.3	25.5		33.6	31.5	33.6	32.7	32.9	34.1	31.7																		
23	31.4			27.1	31.7	30.6	33.6	33.2	32.7			32.3																	
24	29.4			26.5	32.0	30.4	33.1	31.9	31.9	33.1		32.0																	
25	26.5	27.4	24.1	26.3		29.8	31.9	33.3	32.4	33.1																			
26		24.0	25.5	29.3		32.0	32.9	31.7	32.7		31.9	32.1																	
27		24.2	25.9				31.9	32.4	32.8		29.7																		
28	27.6	24.5	26.9		33.7	34.2	33.1	29.5	33.1	32.9																			
29	26.4		27.5	31.7	34.1	34.2	32.9	32.7	32.3	33.8	32.7																		
30	24.6		27.1	32.7	34.0	31.9		31.6		32.4		32.5																	
31	23.6						30.4	35.4		33.3		32.7																	
1-10 MEANS	27.42	30.78	26.72	16.58	32.54	30.26	32.17	32.67	32.53	33.47	33.20	30.81																	
SAMPLE SIZE	10	6	5	4	5	5	9	10	10	9	6	7																	
11-20 MEANS	20.95	25.89	27.53	30.55	31.78	29.77	32.26	32.48	32.97	32.82	32.54	29.34																	
SAMPLE SIZE	6	8	6	6	5	6	10	10	10	6	8	7																	
21-31 MEANS	27.88	24.87	26.07	29.43	33.18	31.88	32.52	32.65	32.60	33.26	31.52	32.32																	
SAMPLE SIZE	9	6	7	7	6	9	9	11	8	8	5	5																	
MONTHLY MEANS	26.03	27.05	26.74	26.80	32.54	30.84	32.31	32.60	32.71	33.23	32.48	30.67																	
SAMPLE SIZE	25	20	18	17	16	20	28	31	28	23	19	19																	
MAXIMUM VALUE	31.4	32.8	31.7	33.7	34.6	34.5	34.1	35.4	34.5	34.2	33.7	32.7																	
MINIMUM VALUE	15.1	23.8	23.2	14.1	29.0	26.0	29.9	29.5	30.6	32.1	29.7	27.8																	
RANGE	16.3	9.0	8.5	19.6	5.6	8.5	4.2	5.9	3.9	2.1	4.0	4.9																	
STANDARD DEV.	4.41	3.20	2.37	6.32	1.59	2.32	1.19	.98	.73	.55	.91	1.56																	

TRINIDAD HEAD												TEMPERATURE				YEAR 1974				ANNUAL	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN						
1		10.3		11.0	8.5	9.3	11.0	14.4	11.3	11.9	10.0	10.5									
2	9.7	10.0	8.9	11.0	9.5	11.3	9.7	13.5		12.3	9.8	10.5									
3	9.1	9.3	8.7	10.9	10.0	9.0	9.4	13.0	12.4	11.8	9.5	10.6									
4	9.4		9.7	12.0	10.0	9.3	10.7	13.4		11.0	9.8	10.5									
5		9.0	9.5	10.5	9.7	9.8	10.0		13.5		9.7	10.5									
6	8.4	8.5	9.0	10.6	9.5	8.8		13.0	12.3		9.7	10.9									
7		8.5		10.8	9.5	9.6			13.0	11.0	10.4	11.2									
8	9.5	9.0	8.4		11.0	9.0	10.7	12.5	15.0	11.2	10.4	10.7									
9	8.8	8.6	8.2		9.5	8.4	11.0	10.8		11.9	10.2	11.0									
10		8.4			10.3	10.3	11.1	10.8		12.8	10.5										
11	8.6	8.7	9.5		10.0	9.0	14.3	12.3		10.8	10.3	10.8									
12	9.5	8.5	9.4		9.5	10.5		13.3		11.0	10.4	11.1									
13	10.0	8.7	9.0		9.0			12.4		11.0	10.5	10.8									
14	10.4	9.0	9.7		8.8	10.3				11.5	10.3	11.0									
15	10.5	8.8	9.7				12.5			11.8	10.5	11.0									
16		8.6	9.5				13.3	13.4	10.9		9.5										
17		8.7	10.0	9.6	9.9	11.7	13.5	13.6	11.0	12.2	10.0	10.8									
18	10.2			9.0	9.5	12.6	14.3	15.5	11.0	11.0	10.0	10.3									
19	10.0	9.0			10.0	12.5	13.3	13.5	11.2	11.2	10.1	10.7									
20	9.5	4.3	10.0		12.5	12.8	12.5	12.6	13.0	11.2	10.0	10.5									
21		9.5	9.7	8.5	12.8	12.5	12.5			10.7	9.6										
22		9.5	9.5		11.7			13.0		10.1	9.8										
23	10.0	9.3	9.7	9.4	10.0		10.8	11.9	11.5	10.6	10.2	9.8									
24	9.0	9.4	10.4	9.9	12.0		10.8	15.6	11.7	10.8	10.6										
25	9.2		11.0	9.6			12.5	11.6	11.0	10.4	10.6										
26	9.5		11.0	11.0			11.3		11.7	10.9	10.3	9.7									
27		8.8	10.0	11.0		11.0	12.5	13.5	11.2	11.2	10.7	9.2									
28	9.0		10.4				13.0	12.5													
29	9.5		10.0	10.5			13.5	11.6		11.0											
30	9.5		10.2	11.0	10.0		12.5		12.0	10.5	10.2	8.7									
31	10.0		9.9		9.3		13.1	11.2		10.4		8.2									
1-10 MEANS	9.04	9.15	8.91	10.97	9.75	9.48	10.45	12.68	12.84	11.74	10.00	10.71									
SAMPLE SIZE	7	8	7	7	10	10	8	6	7	8	10	9									
11-20 MEANS	9.84	8.81	9.60	9.30	9.90	11.34	13.39	13.23	11.42	11.35	10.16	10.78									
SAMPLE SIZE	8	9	8	2	8	7	7	9	5	10	10	9									
21-31 MEANS	9.49	9.30	10.16	10.11	10.97	11.75	12.25	12.50	11.52	10.71	10.25	9.12									
SAMPLE SIZE	9	5	11	8	6	2	10	9	6	11	8	5									
MONTHLY MEANS	9.47	9.05	9.65	10.37	10.10	10.41	11.99	12.81	12.01	11.21	10.13	10.39	10.63								
SAMPLE SIZE	24	22	26	17	24	19	25	26	18	29	28	23									
MAXIMUM VALUE	10.5	10.3	11.0	12.0	12.8	12.8	14.3	15.6	15.0	12.8	10.7	11.2	15.6								
MINIMUM VALUE	8.4	8.5	8.2	8.5	8.5	8.4	9.4	10.8	10.9	10.1	9.5	8.2	8.2								
RANGE	2.1	1.8	2.8	3.5	4.3	4.4	4.9	4.8	4.1	2.7	1.2	3.0									
STANDARD DEV.	.58	.49	.69	.90	1.11	1.46	1.41	1.22	1.09	.63	.35	.78									

TEMPERATURE												YEAR 1974		ANNUAL MEAN		ANNUAL MAX MIN	
SALT POINT												YEAR 1974		ANNUAL MEAN		ANNUAL MAX MIN	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC					
1	10.5	10.1	10.6	12.0	10.3	10.2	11.2	12.1	11.9	12.2	10.5	10.5					
2	7.9	9.6	10.1	11.0	10.0	14.2	10.5	12.9	12.2	10.3	10.2	11.5					
3	7.9	9.4	9.6	10.0	8.9	11.2	10.0	13.4	13.0	12.0	10.5	11.5					
4	8.6	10.2	9.9	11.0	9.8	10.0	11.0	13.0	11.7	12.2	10.5	12.0					
5	9.4	9.0	10.0	11.0	10.4	12.6	10.8	12.8	14.0	12.2	11.1	11.5					
6	9.1	8.7	10.0	10.0	10.0	10.3	9.9	14.2	12.6	12.8	11.1	11.5					
7	9.0	8.9	9.6	10.3	9.4	9.2	10.8	12.7	12.9	13.0	12.2	11.0					
8	9.0	8.8	9.7	11.0	10.6	9.0	10.1	11.3	12.2	13.2	11.5	10.5					
9	9.2	8.9	10.0	10.8	9.8	10.6	11.0	12.2	12.3	14.0	11.0	12.0					
10	8.9	8.9	10.1	9.2	10.1	11.5	10.5	13.6	12.0	13.5	12.0	11.0					
11	9.0	9.8	10.5	10.0	9.0	12.0	11.0	13.5	12.1	11.5	12.0	12.0					
12	10.3	9.8	10.5	10.0	9.6	11.0	12.0	13.8	12.2	10.5	11.5	11.5					
13	10.9	8.7	9.1	10.0	9.0	11.0	11.9	14.0	12.5	10.3	11.5	10.5					
14	11.5	9.4	11.0	10.8	8.8	11.0	11.5	13.5	14.0	11.5	12.0	11.5					
15	11.5	9.0	11.8	9.0	9.0	11.6	10.8	13.0	13.0	12.0	12.0	11.5					
16	11.1	9.8	12.5	10.0	9.8	11.1	10.1	13.3	12.5	13.5	11.7	10.2					
17	11.0	9.9	10.1	10.3	8.4	11.8	10.5	12.7	12.0	11.5	12.0	12.0					
18	12.0	9.5	11.0	9.8	9.0	11.4	12.5	11.8	11.9	11.5	11.0	11.0					
19	10.9	10.0	11.0	9.0	10.1	12.5	10.2	11.5	12.0	12.3	12.0	10.5					
20	10.4	8.8	11.6	9.7	9.4		12.0	12.2	12.5	11.5	12.0	11.0					
21	9.5	9.7	11.3	9.9	10.2	13.4	11.5	10.5	11.5	10.5	12.0	11.0					
22	10.2	9.1	11.3	9.2	10.3	10.5	10.3	11.0	12.0	12.0	11.8	9.5					
23	9.4	9.6	10.4	9.9	10.2	11.0	12.5	11.0	11.8	12.5	12.5	8.5					
24	10.0	9.0	10.0	9.8	10.7	9.5	10.5	12.0	11.9	13.2	11.5						
25	10.0	9.5	11.0	9.9	9.5	10.9	14.0	12.1	11.5	12.5							
26	9.8	10.4	11.5	10.0	9.8	10.0	13.7	12.1	11.5	13.0	11.5	9.0					
27	9.4	8.9	12.0	9.9	9.4	10.5	13.8	12.5	12.0	12.8	12.0	10.0					
28	9.0	10.2	12.5	9.8	9.4	9.8	13.8	13.0	12.5	12.5	12.0	9.5					
29	9.0		12.0	9.7	11.1	10.7	12.8	12.2	13.0	12.0	9.0						
30	8.6		12.0	10.8	9.8	11.8	12.2	12.0	12.0	11.5	11.0	10.0					
31	10.0		12.0		12.4		11.5	12.0		11.2		10.0					
1-10 MEANS	8.95	9.25	9.96	10.63	9.93	10.88	10.58	12.82	12.48	12.54	11.06	11.30					
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10					
11-20 MEANS	10.86	9.47	10.91	9.84	9.21	11.49	11.25	12.93	12.47	11.61	11.77	11.17					
SAMPLE SIZE	10	10	10	9	10	9	10	10	10	10	10	10					
21-31 MEANS	9.54	9.55	11.45	9.89	10.25	10.81	12.42	11.85	11.97	12.15	11.79	9.61					
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	8	9					
MONTHLY MEANS	9.77	9.41	10.80	10.13	9.81	11.04	11.45	12.51	12.31	12.10	11.52	10.73					
SAMPLE SIZE	31	28	31	29	31	29	31	31	30	31	28	29					
MAXIMUM VALUE	12.0	10.4	12.5	12.0	12.4	14.2	14.0	14.2	14.0	14.0	12.5	12.0					
MINIMUM VALUE	7.9	8.7	9.1	9.0	8.4	9.0	9.9	10.5	11.5	10.3	10.2	8.5					
RANGE	4.1	1.7	3.4	3.0	4.0	5.2	4.1	3.7	2.5	3.7	2.3	3.5					
STANDARD DEV.	1.05	.52	.94	.69	.78	1.18	1.22	.92	.63	.96	.60	.98					

FARALLON IS. TEMPERATURE YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	10.8	10.8			10.3	9.9	10.7	13.2	13.5	14.5	12.8	12.0			
2	10.4	10.8	10.7	11.6	9.7	10.0	11.6	12.3	13.0	15.1	12.5				
3		10.6	10.5		9.8	10.0	11.4	13.7	13.1	15.9	12.3				
4		10.8	10.6	11.7	9.7	9.9	11.6	15.2	13.5	15.0	12.4	12.7			
5	10.6	10.5	10.7		10.0	10.8	11.0	15.4	13.9	15.1	12.9	12.6			
6	10.4		10.5	11.8	10.1	10.3	10.9	14.4	14.1	15.4	13.5	12.8			
7				11.8	10.1	9.8	12.2	13.9	13.8	14.2	13.0	12.5			
8	10.5	10.6	10.0	11.5	10.7	9.8	11.3	13.7	13.8	14.5	12.8	12.4			
9	10.4	11.0	10.1	11.1	10.5	10.1	11.8	13.0	13.8	14.6	12.1	12.3			
10	10.4	10.7	10.1	10.6	10.4	9.9	11.7	13.5	13.6	15.1	12.3	12.2			
11		10.5		10.4	9.9	10.6	12.2	14.0	13.2	14.9	12.1	12.2			
12			10.6	10.0	9.6	10.3	11.6	14.3	13.2	14.1	12.9	12.2			
13		10.6	10.6	10.1	9.6	10.5	13.7	14.5	14.1	13.8	12.3	12.1			
14			10.7	10.4	9.2	10.8	13.1	14.7	14.7	14.5	12.4	12.1			
15			11.6	11.0	9.3	11.5	12.2	13.5	14.0	13.6	12.3				
16			11.0	11.0	9.2	13.1	11.0	13.6	13.5	13.9	12.3	12.4			
17		10.4	10.8	10.3	9.3	12.5	11.3	13.6	14.2	14.5	12.1	12.3			
18				10.0	9.7	12.5	12.1	14.0	13.6	13.6	12.1	11.8			
19	11.3	10.4	11.6	10.0	9.6	11.3	11.8	12.4	14.0	13.3	12.2	12.0			
20	11.0	10.5	10.7	9.8	9.7	12.6	11.9	12.2	14.1	14.0		12.1			
21	10.9	10.4	10.7	9.9	10.1	13.6	11.9	12.5	13.8	13.8		12.0			
22	11.0	10.2	11.2	10.0	10.1	12.2	11.7	12.7	13.8	14.0	12.0	11.1			
23		10.3	11.5	10.0	9.9	11.2	11.9	12.3	13.6	14.0	12.3	11.2			
24		10.5	11.3	10.1	9.8	11.1		12.1		14.0	12.3	11.1			
25		10.8		10.4	10.0	11.0	12.7	12.2	13.7	14.5		11.5			
26		10.8		10.5	10.1	10.8	12.6	12.3	13.7	14.2	12.0	11.3			
27		10.7		10.5	9.9	11.3	12.8	12.8	13.5	14.3	12.0				
28				11.0	9.5	11.3	13.4	12.9	13.6	14.0	12.2				
29		10.7		11.0	9.6		13.8	12.6	15.2			11.4			
30		10.7		10.4	9.7	11.6	13.7	12.5	15.3	12.9		11.0			
31			11.6		9.8		13.7	13.3		13.0		10.9			
1-10 MEANS SAMPLE SIZE	10.49 8	10.72 8	10.40 8	11.44 7	10.13 10	10.05 10	11.42 10	13.83 10	13.61 10	14.94 10	12.66 10	12.44 8			
11-20 MEANS SAMPLE SIZE	11.15 2	10.48 5	10.95 8	10.30 10	9.51 10	11.57 10	12.09 10	13.68 10	13.86 10	14.02 10	12.30 9	12.13 9			
21-31 MEANS SAMPLE SIZE	10.84 7	10.53 7	11.26 5	10.38 10	9.86 11	11.57 9	12.82 10	12.56 11	14.02 9	13.87 10	12.13 6	11.28 9			
MONTHLY MEANS SAMPLE SIZE	10.71 17	10.59 20	10.81 21	10.63 27	9.84 31	11.04 29	12.11 30	13.33 31	13.82 29	14.28 30	12.40 25	11.93 26			
MAXIMUM VALUE	11.3	11.0	11.6	11.8	10.7	13.6	13.8	15.4	15.3	15.9	13.5	12.8	15.9		
MINIMUM VALUE	10.4	10.2	10.0	9.8	9.2	9.8	10.7	12.1	13.0	12.9	12.0	10.9			9.2
RANGE	.9	.8	1.6	2.0	1.5	3.8	3.1	3.3	2.3	3.0	1.5	1.9			
STANDARD DEV.	.28	.20	.49	.63	.36	1.06	.90	.93	.53	.69	.38	.56			

FARALLON IS

SALINITY

YEAR 1974

ANNUAL ANNUAL ANNUAL
MEAN MAX MIN

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	33.18	32.76	33.33	32.99	33.66	34.11	33.88	33.73	33.94	33.56	33.30	33.41			
2	32.21	30.55	33.33	32.99	33.86	34.01	33.92	33.86	33.52	33.52	33.36				
3		33.25	33.32		33.90	34.12	33.92	33.80	33.71	33.78	33.69				
4		31.04	33.14	32.88	33.87	34.06	33.91	33.83	33.49	33.49	33.39	33.60			
5	32.49	32.48	33.33		33.84	33.85	33.93	33.72	33.84	33.38	33.84	33.52			
6	33.30		33.31	32.45	33.83	34.44	33.94	33.74	33.77	33.49	33.67	33.55			
7	32.99			32.04	33.99	34.32	33.78	33.78	33.68	33.36	33.49	33.54			
8	32.94	32.96	33.26	32.67	33.80	34.31	33.79	33.85	33.72	33.33	33.56	33.59			
9	33.14	32.30	33.51	32.86	33.66	34.16	33.80	33.78	33.92	33.38	33.87	33.62			
10	33.28	32.89	33.54	32.96	33.67	34.07	33.85	33.96	33.76	33.56	33.36	33.62			
11		32.95		33.27	33.94	34.06	33.69	33.65	33.74	33.51	33.93	33.41			
12				33.57	33.93	33.98	33.72	33.67	33.77	33.11	33.43	33.53			
13		32.96	33.47	33.52	34.05	33.92	33.75	33.73	33.67	33.24	33.55	33.54			
14			33.45	33.49	34.14	33.98	33.90	33.70	33.63	33.05	33.83	33.01			
15			31.87	32.83	34.08	33.99	33.77	33.70	33.63	33.22	33.33				
16			32.94	32.82	34.08	33.90	33.79	33.67	33.61	33.19	33.41	33.44			
17		33.06	33.07	33.32	34.08	33.90	33.86	33.72	33.50	33.15	33.40	33.47			
18				33.42		33.56	33.98	33.65	33.59	33.59	33.38	33.61			
19	33.56	32.92	31.11	33.48	34.04	33.86	33.87	33.76	33.63	33.43	33.38	33.85			
20	33.23	33.32	32.91	33.83	34.17	33.66	33.89	33.80	33.44	33.20					
21	33.36	33.27	33.12	33.79	34.06	33.12	33.94	33.78	33.56	33.33					
22	33.36	33.32	32.44	33.78	34.20	33.38	33.92	33.73	33.87	33.26	33.51	33.37			
23		33.39	31.90	33.78	34.04	33.60	33.87	33.84	33.58	33.45	33.40	33.47			
24	31.66	33.38	31.70	33.79	34.01	33.78	33.95	33.80	33.44	33.40	33.40	33.43			
25		33.39		33.74	34.00	33.82	34.04	33.84	33.66	33.47					
26		33.38		33.75	34.01	33.90	33.87	33.75	33.57	33.40	33.54	33.44			
27	33.29			32.82	34.08	33.90	33.78	33.78	33.47	33.39	33.45				
28	33.36	33.42		32.90	34.10	33.98	33.87	33.73	33.77	33.52	33.33				
29	32.56			33.43	34.13		33.83	33.74	33.58			33.45			
30	31.66			33.58	34.12	33.85	33.73	33.73	33.60	33.33		33.58			
31			33.27		34.06		33.89	33.78	33.11			33.55			
1-10 MEANS	33.00	32.28	33.34	32.69	33.81	34.15	33.87	33.81	33.79	33.49	33.55	33.56			
SAMPLE SIZE	8	8	8	7	10	10	10	10	8	10	10	8			
11-20 MEANS	33.39	33.04	32.69	33.36	34.06	33.88	33.82	33.70	33.62	33.27	33.52	33.46			
SAMPLE SIZE	2	5	7	10	9	10	10	10	10	10	9	9			
21-31 MEANS	32.75	33.36	32.49	33.54	34.07	33.70	33.89	33.77	33.63	33.37	33.44	33.44			
SAMPLE SIZE	7	7	5	10	11	9	11	11	9	10	6	9			
MONTHLY MEANS	32.95	32.85	32.90	33.25	33.98	33.92	33.86	33.76	33.67	33.37	33.51	33.48	33.46		
SAMPLE SIZE	17	20	20	27	30	29	31	31	27	30	25	26			
MAXIMUM VALUE	33.56	33.42	33.54	33.83	34.20	34.44	34.04	33.96	33.94	33.78	33.93	33.85	34.44		
MINIMUM VALUE	31.66	30.55	31.11	32.04	33.66	33.12	33.69	33.65	33.44	33.05	33.30	33.01	30.55		
RANGE	1.90	2.87	2.43	1.79	.54	1.32	.35	.31	.50	.73	.63	.84			
STANDARD DEV.	.58	.77	.70	.48	.15	.27	.08	.07	.13	.17	.19	.17			

PACIFIC GROVE												TEMPERATURE				YEAR 1974				ANNUAL ANNUAL	
																				MAX	
																				MIN	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC									
1	11.2	11.2	11.2	12.1	13.1	11.5	12.8	15.2	13.9	14.7	14.7	12.0									
2	10.5	11.0	10.9	12.4	12.6	11.8	11.5	14.8	13.6	14.5	14.5	12.1									
3	10.6	10.8	11.0	12.3	12.8	11.8	12.2	15.3	14.0	14.2	14.5	12.5									
4	10.2	11.2	10.8	12.4	12.7	11.5	13.0	15.0	14.8	14.3	13.9	12.5									
5	10.3	10.8	10.9	12.9	12.3	12.4	13.1	14.9	14.1	14.6	13.5	12.6									
6	10.4	10.8	11.0	13.4	11.9	12.2	13.2	16.2	15.5	14.9	13.4	12.6									
7	10.4	10.7	11.1	13.0	11.3	12.5	13.2	16.2	15.0	14.6	12.9	13.2									
8	10.4	10.5	10.6	13.4	11.2	13.3	14.7	15.8	15.2	14.5	12.9	12.9									
9	10.7	10.2	11.0	12.6	11.0	14.1	13.7	15.6	13.9	14.4	12.7	12.5									
10	10.5	11.2	11.0	12.6	11.8	11.5	13.6	16.0	13.6	14.9	13.3	12.4									
11	10.4	11.4	11.6	13.0	12.0	11.6	14.6	15.6	13.9	15.0	12.8	12.5									
12	11.3	11.2	10.9	13.5	12.3	11.8	15.1	15.0	13.7	15.9	12.7	12.9									
13	11.4	11.1	11.4	13.9	11.7	12.3	15.4	15.7	14.8	15.8	12.5	12.6									
14	11.5	11.2	11.9	14.0	12.1	13.4	15.3	15.8	14.9	15.4	12.8	12.8									
15	11.4	11.5	12.2	12.6	12.3	13.9	14.9	15.7	14.7	15.0	12.7	13.1									
16	11.7	11.7	12.3	11.9	12.0	14.2	14.9	15.7	14.8	15.2	12.8	12.4									
17	11.8	11.6	12.3	11.7	12.1	13.7	15.3	15.9	14.9	14.7	12.9	12.6									
18	11.9	11.4	11.6	11.8	12.4	13.3	15.2	16.0	14.9	14.3	12.5	12.3									
19	12.0	11.3	11.2	11.6	12.7	13.4	14.5	16.0	14.9	14.6	12.5	11.7									
20	11.6	11.1	11.6	12.2	13.0	13.9	15.2	16.1	15.0	14.0	12.0	11.4									
21	11.2	11.2	11.4	12.0	12.4	14.7	14.7	15.6	14.9	13.9	11.8	11.4									
22	11.1	11.5	11.3	12.3	13.3	14.2	14.5	15.9	14.9	14.0	12.5	10.9									
23	10.9	11.1	11.7	12.2	12.8	14.4	14.0	14.3	14.8	14.4	12.6	11.0									
24	11.1	10.7	12.0	11.9	13.9	14.6	13.5	14.3	15.0	14.4	12.5	10.7									
25	11.2	11.1	12.2	11.6	12.6	14.2	15.0	14.0	14.4	14.5	12.7	10.6									
26	11.2	11.7	12.2	12.2	13.1	14.7	15.7	14.8	13.9	15.2	12.0	10.6									
27	10.9	11.4	11.8	13.6	13.6	14.3	14.4	14.1	14.5	15.6	12.0	10.6									
28	11.2	11.0	11.7	13.0	12.0	14.1	15.9	14.1	13.9	14.9	12.1	11.0									
29	10.9		12.1	12.8	12.2	14.2	15.0	13.9	14.5	14.9	12.0	10.9									
30	11.1		12.6	13.4	11.7	13.6	15.1	14.0	14.9	15.0	12.1	11.0									
31	11.0		12.7		11.5	15.2	13.9			14.9		11.0									
1-10 MEANS SAMPLE SIZE	10.52 10	10.84 10	10.95 10	12.71 10	12.07 10	12.26 10	13.10 10	15.50 10	14.36 10	14.56 10	13.63 10	12.53 10									
11-20 MEANS SAMPLE SIZE	11.50 10	11.35 10	11.70 10	12.62 10	12.26 10	13.15 10	15.04 10	15.75 10	14.65 10	14.99 10	12.62 10	12.43 10									
21-31 MEANS SAMPLE SIZE	11.07 11	11.21 8	11.97 11	12.50 10	12.65 11	14.30 10	14.82 11	14.45 11	14.57 10	14.70 11	12.23 10	10.88 11									
MONTHLY MEANS SAMPLE SIZE	11.03 31	11.13 28	11.55 31	12.61 30	12.34 31	13.24 30	14.34 31	15.21 31	14.53 30	14.75 31	12.83 30	11.91 31							12.95		
MAXIMUM VALUE	12.0	11.7	12.7	14.0	13.9	14.7	15.9	16.2	15.5	15.9	14.7	13.2							16.2		
MINIMUM VALUE	10.2	10.2	10.6	11.6	11.0	11.5	11.5	13.9	13.6	13.9	11.8	10.6							10.2		
RANGE	1.8	1.5	2.1	2.4	2.9	3.2	4.4	2.3	1.9	2.0	2.9	2.6									
STANDARD DEV.	.50	.36	.58	.69	.68	1.12	1.08	.78	.53	.50	.76	.86									

PACIFIC GROVE

SALINITY

YEAR 1974

ANNUAL MEAN MAX MIN

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	33.72	33.40	33.79	33.70	33.90	34.53	34.01	33.84	33.87	33.80	33.76	33.82			
2	33.60	33.42	33.57	33.13	33.90	34.45	33.99	33.85	33.83	33.45	33.73	33.87			
3	33.58	33.48	33.66	33.00	33.88	34.18	34.53	33.82	33.80	33.65	33.71	33.32			
4	33.49	33.45	33.88	33.28	33.91	34.01	34.07	33.84	33.95	33.73	33.69	33.39			
5	33.66	33.52	33.69	33.23	33.83	33.94	33.88	33.81	33.84	33.75	33.62	33.29			
6	33.50	33.62	33.61	32.96	33.96	34.00	33.93	33.73	33.94	33.75	33.62	33.38			
7	33.22	33.60	33.58	33.16	33.88	34.86	33.95	33.79	33.71	33.68	33.73	33.75			
8	33.54	33.64	33.31	33.15	33.92	34.16	33.76	33.90	33.84	33.54	33.67	33.66			
9	33.69	33.68	33.39	33.22	34.05	34.10	33.82	33.96	33.76	33.57	33.68	33.63			
10	33.76	33.68	33.19	33.49	33.96	33.89	33.89	33.85	33.80	33.63	33.67	33.66			
11	33.67	33.73	33.70	33.12	34.17	34.31	33.86	33.79	33.91	33.78	33.69	33.68			
12	33.49	33.67	33.62	33.18	33.92	34.13	33.90	33.79	33.79	33.62	33.72	33.59			
13	33.54	33.66	33.56	33.30	33.97	34.35	33.88	33.90	33.79	33.66	33.62	33.61			
14	33.54	33.66	33.62	33.31	33.97	34.10	34.03	33.87	33.85	33.74	33.59	33.74			
15	33.58	33.70	33.52	33.66	33.92	34.05	33.89	33.78	33.80	33.72	33.63	33.63			
16	33.61	33.65	33.50	33.79	34.03	34.06	33.97	33.84	33.80	33.68	33.70	33.61			
17	33.44	33.63	33.46	33.83	34.19	33.96	33.90	33.84	33.86	33.83	33.66	33.67			
18	33.50	33.64	33.64	33.74	34.05	33.99	33.92	33.88	33.70	33.71	33.61	33.79			
19	33.46	33.52	33.70	33.80	33.98	33.89	33.92	33.89	33.90	33.68	33.66	33.65			
20	33.52	33.62	33.77	33.74	34.06	33.86	33.94	33.87	33.74	33.95	33.58	33.71			
21	33.43	33.66	33.74	33.76	33.91	33.73	33.98	33.75	33.73	33.67	33.51	33.79			
22	33.57	33.66	33.76	33.79	33.06	33.91	33.64	33.55	33.73	33.67	33.64	33.93			
23	33.56	33.66	33.70	33.63	33.78	33.98	33.97	34.13	33.76	33.67	33.47	33.82			
24	33.40	33.64	33.66	33.54	33.86	34.15	33.98	33.79	33.75	33.71	33.71	33.75			
25	33.34	33.62	33.26	33.56	34.21	33.98	33.89	33.87	33.80	33.70	33.74	33.73			
26	32.95	33.67	33.88	33.50	33.95	33.97	33.93	33.75	33.77	33.80	33.64	33.89			
27	33.28	33.70	33.35	33.69	34.11	34.16	33.98	33.72	33.66	33.73	33.66	33.82			
28	33.07	33.72	33.36	33.80	34.11	33.96	33.85	33.80	33.70	33.56	33.68	33.68			
29	33.28		33.54	33.83	34.06	34.03	33.83	33.80	33.71	33.67	33.67	33.72			
30	33.28		33.14	33.83	34.08	33.99	33.91	33.80	33.70	33.64	33.73	33.75			
31	33.35		33.07		34.24		33.80	33.74		33.64		33.74			
1-10 MEANS	33.58	33.55	33.57	33.23	33.92	34.25	33.98	33.84	33.83	33.65	33.69	33.58			
SAMPLE SIZE	10	10	10	10	10	9	10	10	10	10	10	10			
11-20 MEANS	33.54	33.65	33.61	33.55	34.03	34.07	33.92	33.84	33.81	33.74	33.65	33.67			
SAMPLE SIZE	10	10	10	10	9	10	10	10	10	10	10	10			
21-31 MEANS	33.32	33.67	33.50	33.69	33.94	33.99	33.89	33.79	33.74	33.67	33.65	33.78			
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11			
MONTHLY MEANS	33.47	33.62	33.56	33.49	33.96	34.10	33.93	33.82	33.80	33.69	33.66	33.68	33.73		
SAMPLE SIZE	31	28	31	30	30	29	31	31	30	31	30	31			
MAXIMUM VALUE	33.76	33.73	33.88	33.83	34.24	34.86	34.53	34.13	33.95	33.95	33.76	33.93		34.86	
MINIMUM VALUE	32.95	33.40	33.07	32.96	33.06	33.73	33.64	33.55	33.70	33.45	33.47	33.29			32.95
RANGE	.81	.33	.81	.87	1.18	1.13	.89	.58	.25	.50	.29	.64			
STANDARD DEV.	.18	.09	.21	.29	.21	.23	.14	.09	.07	.09	.07	.16			

PT LC805 NORTH

TEMPERATURE

YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	12.0	10.5	11.0	12.5	11.0	11.0	12.0	14.0	14.0	14.0	14.0	12.0			
2	12.0	9.0	11.0	12.0	11.0	11.0	12.0	13.4	12.8	14.0	12.0	12.8			
3	10.0	9.0	10.5	12.0	10.3	11.5	12.0	14.0	12.8	14.5	13.0	13.5			
4	11.0	10.5	10.0	11.0	10.0	11.5	12.4	15.0	12.8	14.0	12.3	13.5			
5		10.0	10.8	11.0	10.5	12.5	13.1	14.0	13.4	14.0	12.3	13.0			
6		9.5	11.0	11.0	10.5		13.0	13.4	13.4	14.0	12.2	13.0			
7	12.0	9.8	11.0	11.0	11.0	12.0	13.0	14.0	13.9	14.0	12.5	13.0			
8	10.0	11.0	10.0	11.0	11.0	10.0	11.0	14.0	13.8	15.0	12.5	13.0			
9	10.0	11.0	10.0	10.0	11.0	11.0	13.0	14.0	14.1		12.8	13.0			
10	10.0	9.0	10.0	10.0	11.0	11.0	13.0	15.0	13.1	14.0	12.2	12.5			
11	10.2	11.0	10.2	10.3	11.5	11.5	12.1	15.0	13.1	15.0	12.0	13.5			
12	10.5	11.0	10.2	11.0	10.0		13.5	15.0	13.5	13.8	12.0	13.0			
13	11.0	11.0	10.2	10.5	11.0	11.0	14.0	16.0	13.5	10.4	12.0	14.0			
14	11.0	11.1	10.2	10.5	11.0	11.5	13.0	15.0	14.3		12.3	11.9			
15	11.0	10.5	11.0	11.0	10.8	13.0	13.0	15.0	14.2	13.8	12.8	11.8			
16	11.1	11.0	11.0	11.5	10.8	13.5	12.2	15.5	14.3	14.0	13.0	11.6			
17	11.5	11.0	11.0	11.0	10.3	13.0	13.5	15.2	15.0	14.5	12.5	11.5			
18	11.5	10.0	11.0	12.0	11.0	12.0	14.0	14.2	14.0	13.9	12.5	13.0			
19	11.0	10.0	11.5	11.1	10.5	13.0	13.0	14.1	14.0	14.0	12.0	13.5			
20	11.5	10.5		11.0	12.0	14.0	13.0	13.5	14.0	14.2	11.0	13.5			
21	11.0	10.1	11.0	10.0	12.0	13.0	13.0		14.0	14.2	12.0	11.0			
22	10.0	10.0	11.0	10.0	11.5	13.5		13.5	14.0	14.2	12.0	11.3			
23	10.8	10.0	10.0	11.0	11.5	13.5	12.8	13.5	14.0	14.5	11.9	10.0			
24	11.0	10.0	11.0	10.0	11.5	12.0	13.7	13.2	14.0	14.8	11.8	10.0			
25	11.0	9.5	11.1	11.1	11.0	12.0	14.0	12.8	14.0	15.0	12.0	9.9			
26	12.0	10.0	11.5	11.0	12.0	12.0	14.5	13.2	13.0	15.0	12.5	11.0			
27	10.0	10.0	11.5		11.5	12.0	14.5	13.6	13.0	16.1	11.5	11.0			
28	10.9	10.0	11.5	12.0	11.5	12.0	14.0	14.0	13.0	15.1	11.6				
29	10.0		12.0	11.5	11.0	12.0	15.0	14.1	14.0	14.0	12.5				
30	10.0		12.5	11.0	11.0	12.0	15.0		14.0	14.0	11.8	11.0			
31	10.2		12.0		11.0		15.0	13.8		13.5					
1-10 MEANS	10.88	9.93	10.53	11.15	10.73	11.28	12.45	14.08	13.41	14.17	12.58	12.93			
SAMPLE SIZE	8	10	10	10	10	9	10	10	10	9	10	10			
11-20 MEANS	11.03	10.71	10.70	10.99	10.89	12.50	13.13	14.85	13.99	13.73	12.21	12.73			
SAMPLE SIZE	10	10	9	10	10	9	10	10	10	9	10	10			
21-31 MEANS	10.54	9.95	11.37	10.84	11.41	12.40	14.15	13.47	13.70	14.58	11.96	10.69			
SAMPLE SIZE	11	8	11	9	11	10	10	10	10	11	10	9			
MONTHLY MEANS	10.80	10.21	10.89	11.00	11.02	12.07	13.24	14.13	13.70	14.19	12.25	12.17			
SAMPLE SIZE	29	28	30	29	31	28	30	30	30	29	30	29			
MAXIMUM VALUE	12.0	11.1	12.5	12.5	12.0	14.0	15.0	16.0	15.0	16.1	14.0	14.0	16.1		
MINIMUM VALUE	10.0	9.0	10.0	10.0	10.0	10.0	11.0	12.8	12.8	10.4	11.0	9.9			9.0
RANGE	2.0	2.1	2.5	2.5	2.0	4.0	4.0	3.2	2.2	5.7	3.0	4.1			
STANDARD DEV.	.71	.65	.66	.68	.53	.96	.99	.80	.55	.91	.55	1.21			

PT LOBOS SOUTH		TEMPERATURE												YEAR 1974		ANNUAL	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN		
1	10.0	10.0	10.5	11.5	10.5	11.0	11.5	12.2	12.0	13.0	14.5	12.0					
2	11.5	8.0	10.0	11.8	10.5	11.0	11.5	11.9	11.8	13.5	11.7	12.3					
3	10.0	8.0	9.5	11.5	10.0	11.0	11.5	13.0	11.8	14.8	12.0	13.0					
4	10.0		10.5	10.8	10.0	11.0	12.2	14.0	11.8	13.5	12.0	13.0					
5			10.0	11.0	10.0	11.5	12.8	13.5	12.1	13.5	12.0	12.5					
6			10.8	10.5	10.5		12.0	13.0	13.0	13.5	12.0	13.0					
7	10.0		10.0	9.5	10.8	11.5	12.0	13.5	13.0	13.5	12.0	13.0					
8	10.5		9.8	10.5	10.5	10.0	11.5	13.5	12.7	14.0	12.0	12.4					
9	10.0		9.0	10.0	10.0	10.0	12.8	13.5	12.9		12.0	13.5					
10	10.0		8.0	10.0	10.5	10.7	13.5	14.0	12.0	13.5	12.0	12.0					
11	10.2	10.5	10.0	10.0	10.0	11.0	14.0	14.0	12.0	14.5	11.2	13.0					
12	11.5	10.0	10.0	10.5	9.5		14.0	13.7	13.0	12.8	11.4	12.5					
13	10.0	10.5	10.0	9.5	10.0	10.5	12.0	14.5	13.0	10.3	11.4	13.5					
14	10.8	11.0	10.0	10.5	10.0	11.0	12.0	14.0	14.0		11.8	11.3					
15	10.0	11.0	10.8	10.5	10.5	11.0	12.0	14.0	14.5	13.5	12.3	11.0					
16	11.6	10.0	10.0	11.0	10.5	12.0	11.0	15.0	13.8	13.0	12.2	11.0					
17	11.0	10.0	10.0	10.5		12.0	13.0	13.1	14.5	14.0	11.8	11.0					
18	11.0	11.0	10.0	11.5	10.0	12.5	13.7	12.1	13.0	12.8	12.0	12.5					
19	9.0	11.0	11.0	11.0	10.0	12.0	12.5	12.1	12.5	14.0	11.0	13.0					
20	10.5	10.0		10.0	11.5	13.5	12.0	13.0	13.5	13.9	10.5	13.0					
21	10.7	10.0	10.8	10.0	11.5	12.0	12.0	12.1	12.4	13.7	11.5	11.5					
22	10.0	10.0	10.8	10.0	11.5	12.0	13.0	13.0	13.4	13.7	11.5	10.8					
23	10.5	9.0	10.5	10.5	11.0	11.0	11.5	12.4	12.4	14.0	11.2	9.5					
24	10.0	9.0	10.5	10.0	11.0	11.5	12.0	12.0	12.4	14.2	11.9	9.0					
25	10.8	9.5	11.1	11.0	10.0	11.5	13.5	12.8	13.5	14.5	12.0	9.9					
26	10.0	9.0	11.0	10.5	10.0	11.7	14.0	13.2	12.5	15.0	12.0	11.0					
27	10.0	9.8	11.0		10.0	11.5	14.0	13.0	12.5	15.6	11.0	11.0					
28	10.0	9.5	11.0	10.5	10.0	11.7	15.5	13.5	12.5	15.5	11.3						
29	10.0		12.0	11.0	10.5	11.7	13.5	14.0	13.5	14.5	11.5						
30	10.0		12.0	10.5	10.7	11.5	14.5		13.5	13.7	12.0	10.5					
31	10.0		12.0		10.7		14.0	17.5	13.5	13.3		10.5					
1-10 MEANS	10.25	8.67	9.81	10.71	10.33	10.86	12.13	13.21	12.21	13.64	12.22	12.67					
SAMPLE SIZE	8	3	10	10	10	9	10	10	10	9	10	10					
11-20 MEANS	10.50	10.50	10.20	10.50	10.22	11.72	12.62	13.55	13.38	13.20	11.56	12.18					
SAMPLE SIZE	10	10	9	10	9	9	10	10	10	9	10	10					
21-31 MEANS	10.18	9.47	11.15	10.44	10.63	11.61	13.45	13.35	12.86	14.34	11.59	10.41					
SAMPLE SIZE	11	8	11	9	11	10	10	10	10	11	10	9					
MONTHLY MEANS	10.31	9.85	10.42	10.56	10.41	11.40	12.73	13.37	12.82	13.77	11.79	11.80					
SAMPLE SIZE	29	21	30	29	30	28	30	30	30	29	30	29					
MAXIMUM VALUE	11.5	11.0	12.0	11.8	11.5	13.5	15.5	17.5	14.5	15.6	14.5	13.5		17.5			
MINIMUM VALUE	9.0	8.0	8.0	9.5	9.5	10.0	11.0	11.9	11.8	10.3	10.5	9.0			8.0		
RANGE	2.5	3.0	4.0	2.3	2.0	3.5	4.5	5.6	2.7	5.3	4.0	4.5					
STANDARD DEV.	.54	.88	.85	.59	.51	.73	1.13	1.11	.78	.98	.66	1.23					

TEMPERATURE												YEAR 1974		ANNUAL		ANNUAL	
MCRRC BAY												YEAR 1974		ANNUAL		ANNUAL	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		MEAN	MAX	MIN	
1	11.1	10.6	11.7	12.8	11.7	12.8	12.2	13.9	15.6	15.0	15.0	13.3					
2	11.1	11.1	11.7	12.8	12.2	12.8	12.8	14.4	14.4	15.0	15.0	13.3					
3	11.1	11.1	11.1	11.1	12.2	12.8	12.8	14.4	13.9	15.6	15.0	13.3					
4	10.1	10.6	11.1	12.2	12.2	13.3	13.9	15.6	13.3	14.4	13.3	13.3					
5	10.6	10.6	11.1	12.2	12.8	15.0	14.4	16.7	14.4	14.4	12.8	13.9					
6	10.6	11.1	11.1	12.2	12.2	15.0	15.6	17.2	13.9	14.4	12.2	13.9					
7	11.1	10.6	12.2	11.7	12.2	13.3	14.4	16.7	14.4	14.4	12.8	13.3					
8	10.6	10.6	11.1	11.1	12.2	15.0	14.4	17.8	14.4	14.4	12.8	13.3					
9	11.1	10.6	11.7	13.3	12.2	15.6	13.3	15.6	15.0	13.9	12.8	13.3					
10	11.6	10.6	11.1	12.2	12.8	15.6	15.6	15.6	13.9	13.9	12.2	13.3					
11	11.1	11.1	11.7	11.7	12.8	14.4	16.7	14.4	13.3	13.9	11.1	13.3					
12	11.1	12.2	11.1	11.7	12.8	14.4	15.0	15.0	13.3	13.9	11.7	13.3					
13	11.1	11.6	11.7	11.7	12.8	13.3	13.9	14.4	15.0	13.9	11.7	13.3					
14	11.1	11.6	11.7	11.1	12.8	14.4	12.2	13.9	15.6	14.4	12.8	12.8					
15	11.6	10.0	10.6	12.2	11.1	13.3	12.2	14.4	15.6	14.4	12.8	13.3					
16	13.3	10.6	12.2	11.1	11.1	13.9	12.8	15.6	15.0	14.4	13.3	12.8					
17	12.2	11.1	11.7	11.7	12.2	13.9	16.7	15.0	15.6	14.4	12.8	11.7					
18	12.2	11.1	11.7	11.7	12.2	13.9	13.3	13.3	14.4	15.0	12.2	11.7					
19	12.2	10.6	11.7	12.2	12.2	13.9	15.0	16.1	14.4	15.0	12.2	11.1					
20	12.2	12.2	12.2	10.6	11.1	13.3	15.6	15.6	15.6	15.0	12.2	11.1					
21	11.6	11.6	12.2	11.1	12.8	14.4	16.1	15.6	15.6	15.0	12.2	11.1					
22	11.6	10.6	11.7	11.1	12.8	17.2	15.6	14.4	15.6	15.6	12.8	11.1					
23	11.1	11.1	12.2	11.1	12.8	16.7	16.1	13.3	14.4	14.4	12.8	11.1					
24	11.1	10.6	12.2	12.2	13.3	15.0	15.6	14.4	14.4	15.6	12.8	11.1					
25	11.1	11.1	11.7	12.8	13.3	13.9	15.6	14.4	13.4	14.4	12.8	12.2					
26	11.1	13.3	13.3	12.2	12.8	13.3	15.6	14.4	14.4	15.6	12.8	11.7					
27	11.6	12.8	12.8	11.7	12.2	14.4	14.4	14.4	14.4	15.6	13.3	11.1					
28	11.1	11.7	13.3	12.2		11.7	14.4	14.4	14.4	16.1	13.3	11.7					
29	11.1		12.8	12.8		12.2	13.3	15.0	14.4	16.1	13.3	12.2					
30	11.1		13.3	12.2		12.2	13.3	15.0	14.4	15.0	13.9	11.7					
31	11.1		13.3				13.3	15.0		14.4		11.7					
1-10 MEANS	10.90	10.75	11.39	12.16	12.27	14.12	13.94	15.79	14.32	14.54	13.39	13.42					
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10					
11-20 MEANS	11.81	11.21	11.63	11.57	12.11	13.87	14.34	14.77	14.78	14.43	12.28	12.44					
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10					
21-31 MEANS	11.24	11.60	12.62	11.94	12.97	13.88	14.85	14.57	14.54	15.25	13.00	11.52					
SAMPLE SIZE	11	8	11	10	6	10	11	11	10	11	10	11					
MONTHLY MEANS	11.31	11.16	11.90	11.89	12.37	13.96	14.39	15.03	14.55	14.76	12.89	12.43					
SAMPLE SIZE	31	28	31	30	26	30	31	31	30	31	30	31					
MAXIMUM VALUE	13.3	13.3	13.3	13.3	13.3	17.2	16.7	17.8	15.6	16.1	15.0	13.9				17.8	
MINIMUM VALUE	10.1	10.0	10.6	10.6	11.1	11.7	12.2	13.3	13.3	13.9	11.1	11.1				10.0	
RANGE	3.2	3.3	2.7	2.7	2.2	5.5	4.5	4.5	2.3	2.2	3.9	2.8					
STANDARD DEV.	.61	.75	.74	.66	.61	1.31	1.37	1.06	.74	.65	.91	.99					

PORT SAN LUIS

TEMPERATURE

YEAR 1974

DAYS

JAN

FEB

MAR

APR

MAY

JUN

JUL

AUG

SEP

OCT

NOV

DEC

ANNUAL MEAN

ANNUAL MAX

ANNUAL MIN

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	11.1	12.0	11.8	13.1	12.8	12.3	12.1	17.1	16.0	14.8	14.1	12.8			
2	11.1	12.9	12.3	13.2	10.9	12.6	13.3	16.4	15.3	14.8	13.6	12.8			
3	10.9	13.8	11.9	12.7	10.9	12.0	15.0	15.0	15.6	14.3	13.6	13.1			
4	10.9	13.1	12.2	16.0	10.9	12.7	15.1	14.9	17.2	14.3	13.4	13.2			
5	10.6	12.3	12.2	12.0	10.9	12.6	10.7	14.2	16.6	14.8	13.7	13.3			
6	10.0	11.7	11.9	12.4	11.6	13.2	12.3	16.2	17.4	14.3	13.6	13.2			
7	10.4	12.2	11.4	12.9	12.6	14.6	16.6	14.4	14.4	14.2	13.2	13.4			
8	11.7	11.9	11.9	11.9	12.7	13.3	12.0	14.3	15.9	14.4	13.2	13.4			
9	11.2	12.2	12.0	10.9	12.0	14.6	15.7	15.2	17.4	14.9	13.1	13.7			
10	11.2	12.0	12.1	10.6	12.2	13.9	14.6	14.8	15.8	14.4	13.2	13.3			
11	10.9	11.8	12.6	11.2	14.1	13.6	12.9	14.9	15.9	15.6	12.8	13.4			
12	11.8	12.6	12.0	13.6	12.7	13.3	14.1	14.8	14.6	15.2	12.9	13.6			
13	12.2	12.2	14.0	14.1	12.3	13.6	15.7	14.3	14.8	15.6	13.1	13.4			
14	13.4	12.0	14.1	14.2	12.4	12.7	14.9	14.4	14.9	16.2	12.8	13.1			
15	12.7	12.1	14.2	13.6	11.3	13.7	15.0	14.9	15.8	16.9	12.7	13.1			
16	12.0	11.6	14.1	12.9	12.1	12.7	14.8	15.0	15.8	16.1	12.7	13.6			
17	12.9	11.4	13.6	11.4	11.4	13.7	15.2	16.2	17.0	16.1	12.7	13.1			
18	13.3	11.6	13.2	11.2	10.3	14.8	15.4	15.6	16.4	15.7	13.0	12.8			
19	13.0	11.3	12.9	10.8	10.9	14.0	17.0	16.1	15.6	15.6	12.4	12.6			
20	12.4	11.4	13.0	11.1	10.9	13.7	17.1	16.7	15.7	14.9	12.4				
21	12.7	11.4	12.9	14.3	12.2	14.3	16.3	15.9	15.9	15.0	12.3	12.4			
22	12.8	11.7	12.0	12.2	16.6	15.3	16.6	15.3	15.6	14.8	12.7	12.1			
23	12.0	12.4	12.4	12.2	13.8	14.8	16.4	15.2	15.1	14.9	13.0	11.6			
24	12.8	12.2	12.4	12.6	15.4	14.8	16.7	14.8	13.7	14.8	13.0	11.3			
25	12.2	12.9	12.2	12.0	17.3		15.3	15.2	13.7	14.7	13.1	11.0			
26	13.4	12.1	13.1	11.3	16.6	11.4	16.3	14.9	12.8	14.9	13.0	11.4			
27	14.8	12.0	14.1	11.3	15.3	14.2	15.7	16.0	13.7	14.8	12.8	11.4			
28	12.2	11.4	13.7	11.6	13.4	12.9	16.7	15.1	13.8	14.8	12.8	10.8			
29	11.9		14.1	14.3	11.4	12.2	16.9	15.2	14.3		12.4	11.2			
30	12.2		13.9	11.3	11.3	12.6	15.9	15.6	14.8	14.3	12.9	11.4			
31	12.0		13.6	12.2	12.2		16.1	16.6		14.2		11.2			
1-10 MEANS	10.91	12.41	11.97	12.57	11.75	13.18	13.33	15.47	16.16	14.52	13.47	13.22			
SAMPLE SIZE	10	10	10	10	10	10	9	10	10	10	10	10			
11-20 MEANS	12.46	11.80	13.37	12.52	11.84	13.58	15.21	15.29	15.65	15.79	12.75	13.19			
SAMPLE SIZE	10	10	10	9	10	10	10	10	10	10	10	9			
21-31 MEANS	12.70	11.96	13.13	12.42	14.14	13.61	16.26	15.44	14.34	14.72	12.80	11.44			
SAMPLE SIZE	10	8	11	9	11	9	11	11	10	10	10	11			
MONTHLY MEANS	12.02	12.06	12.83	12.51	12.63	13.45	15.03	15.40	15.38	15.01	13.01	12.56	13.49		
SAMPLE SIZE	30	28	31	28	31	29	30	31	30	30	30	30			
MAXIMUM VALUE	14.8	13.8	14.2	16.0	17.3	15.3	17.1	17.1	17.4	16.9	14.1	13.7	17.4		
MINIMUM VALUE	10.0	11.3	11.4	10.6	10.3	11.4	10.7	14.2	12.8	14.2	12.3	10.8	10.0		
RANGE	4.8	2.5	2.8	5.4	7.0	3.9	6.4	2.9	4.6	2.7	1.8	2.9			
STANDARD DEV.	1.07	.58	.88	1.32	1.87	.98	1.68	.78	1.17	.68	.42	.94			

YEAR 1974

SALINITY

PORT SAN LUIS

DATA OMITTED - SEE INTRODUCTION

SANTA BARBARA

TEMPERATURE

YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	13.1	12.8		14.8	15.8	14.7	15.6	18.4	19.0	17.1	14.1	14.5			
2	12.9	13.2	13.4	14.5	15.3	14.5	15.9	18.7	18.5	16.8	14.2	14.6			
3	12.7	13.0	13.4	14.5	14.3	15.1	16.2	18.6	18.4	17.4	14.5	14.7			
4	10.1	12.9	13.4	14.0	14.4	14.9	15.8	18.0	18.5	17.3		14.5			
5	10.6	12.9		13.4	14.4	15.1	15.5	17.6	18.6	17.2	14.4	13.5			
6	11.0	13.0	12.7	13.3	14.3	15.6	16.3	18.2	18.4	17.1	14.4	14.5			
7	11.1	12.5		13.6	14.2	15.5	17.1	19.0	18.3	16.8	14.5	14.5			
8	10.5	12.6		14.2		15.2	16.6	17.6	18.4	16.6	14.5	14.5			
9	10.8	12.5	11.5	14.0		17.1	16.2	17.9	18.5	16.5	14.5	14.1			
10	11.1	12.5	12.4	13.3	14.5	16.1	16.4	17.2	18.6	16.4	15.1	14.3			
11	11.1	12.2	12.6	12.9	14.9	15.6	16.8	17.0	18.6	16.5	15.4	14.3			
12	11.6	12.2	13.2	13.2	15.1	16.1	18.2	17.6	18.7	17.3	15.0	14.4			
13	12.0	12.6	13.5	13.0	14.8	16.5	17.6	17.7	18.9	17.3	15.5	14.5			
14	11.2	12.8	13.6	13.2	15.6	16.8	19.4	17.9	18.9	17.3	15.5	14.5			
15	11.1	12.8	13.8	13.8	15.5	17.2	18.1	18.0	18.0	16.5	15.5				
16	12.5	13.0	14.9	14.6	15.9	19.2	18.2	18.4	18.0	17.5	15.5	14.3			
17	12.8	13.0	15.1	14.2	15.7	18.3	18.8	17.8	18.3	17.5	15.5	14.4			
18	13.2	13.0	15.2	14.3	15.8	16.6	18.6	17.8	18.3	17.6	14.9	14.2			
19	13.5	13.2	15.2		15.0	15.8	18.4	18.9	18.4	17.1	14.9	14.0			
20	13.9	13.0	14.9	13.8	14.3	16.1	19.0	19.6	18.1	17.1	15.5	14.1			
21	13.5	12.8		13.6	14.1	16.1	18.6	19.1	18.4	17.0	15.5	14.0			
22	13.3	12.7		13.3	14.4	16.9	18.4	18.9	18.0	16.8	15.3	14.0			
23	12.7	12.9	14.1	13.4	14.8	18.2	18.4	18.7		17.0	15.0	14.0			
24	12.6	12.9	14.0	13.8	15.4	18.8	18.6	18.5		17.0	14.5	12.5			
25	12.6	12.8	14.1	13.6	15.9	18.8	19.0	18.5		16.9	14.6	12.8			
26	12.7	13.0	14.0	13.6	15.9	19.1	18.0	18.7		17.0	15.1	13.2			
27	12.5	13.3	14.2	14.5	16.2	18.5	17.6	18.6		17.0	15.0	12.1			
28	12.2	13.6	14.4	15.1	16.3	18.5	18.4	18.7		16.6	14.9	12.1			
29	12.2		14.4	16.1	15.9	18.6	19.1	18.6		16.6	15.2				
30	12.5		14.9	16.1	15.8	15.7	18.4	18.7	17.0	14.5	15.0	12.3			
31	12.8		14.7		15.0		18.3	19.1		14.6		12.3			
1-10 MEANS SAMPLE SIZE	11.39 10	12.79 10	12.80 6	13.96 10	14.65 8	15.38 10	16.16 10	18.12 10	18.52 10	16.92 10	14.47 9	14.37 10			
11-20 MEANS SAMPLE SIZE	12.29 10	12.78 10	14.20 10	13.67 9	15.26 10	16.82 10	18.31 10	18.07 10	18.42 10	17.17 10	15.32 10	14.30 9			
21-31 MEANS SAMPLE SIZE	12.69 11	13.00 8	14.31 9	14.31 10	15.43 11	17.92 10	18.44 11	18.74 11	17.80 3	16.45 11	15.01 10	12.93 10			
MONTHLY MEANS SAMPLE SIZE	12.14 31	12.85 28	13.90 25	13.99 29	15.16 29	16.71 30	17.66 31	18.32 31	18.38 23	16.84 31	14.95 29	13.85 29	15.40		
MAXIMUM VALUE	13.9	13.6	15.2	16.1	16.3	19.2	19.4	19.6	19.0	17.6	15.5	14.7	19.6		
MINIMUM VALUE	10.1	12.2	11.5	12.9	14.1	14.5	15.5	17.0	17.0	14.5	14.1	12.1	10.1		
RANGE	3.8	1.4	3.7	3.2	2.2	4.7	3.9	2.6	2.0	3.1	1.4	2.6			
STANDARD DEV.	1.02	.31	.95	.81	.69	1.47	1.18	.61	.41	.69	.45	.85			

VENTURA MARINA		TEMPERATURE											YEAR 1974		ANNUAL	
DAYS		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	13.0	13.0	13.0	14.0	14.3	16.0	15.3	16.3	19.0	19.1	17.8	16.0	14.4			
2	12.3	11.5	11.5	14.2	14.2	15.9	15.3	16.5	19.0	19.5	17.8	16.0	14.4			
3	11.4	12.0	12.0	13.0	14.0	15.8	15.6	16.8	20.0	19.1	18.0	14.3	15.0			
4	8.9	12.7	12.7	12.9	13.8	14.8	15.4	17.1	19.8	19.1	18.0	14.5	14.7			
5	8.0	12.8	12.8	12.8	13.3	15.1	15.5	17.0	20.0	19.3	18.0	14.7	14.4			
6	10.2	12.5	12.5	12.8	13.5	15.5	15.9	17.1	20.0	19.5	17.8	14.8	13.9			
7	11.0	12.2	12.2	13.0	13.6	15.3	16.0	17.4	20.0	19.8	17.9	14.8	14.4			
8	10.0	12.4	12.4	12.4	13.6	15.3	16.1	17.8	19.2	19.6	17.0	15.0	14.6			
9	10.7	11.9	11.9	12.0	13.7	15.2	17.5	17.9	18.4	19.2	16.8	14.5	14.6			
10	11.1	12.5	13.1	14.2	14.2	15.5	18.2	18.2	18.6	19.0	16.2	15.0	14.3			
11	10.0	12.4	12.4	13.2	13.8	15.9	17.8	18.0	18.7	18.9	16.7	15.0	14.2			
12	11.4	12.8	12.8	13.8	14.0	16.0	17.8	18.0	18.8	18.8	16.7	15.1	14.1			
13	12.1	12.8	12.8	14.1	14.4	15.6	18.5	18.5	18.4	18.9	16.8	15.3	15.0			
14	12.1	12.8	12.8	14.8	14.1	15.7	17.8	18.5	18.2	18.6	17.0	15.6	14.5			
15	12.1	12.9	12.9	14.5	13.9	15.8	18.4	19.0	18.5	18.6	16.8	15.5	14.0			
16	12.3	13.0	13.0	15.0	14.6	15.8	17.8	18.5	19.0	18.6	16.8	15.7	14.0			
17	12.8	12.6	12.6	15.0	14.7	16.0	17.5	18.1	18.8	18.9	17.2	15.5	14.2			
18	13.0	12.4	12.4	15.2	14.2	15.3	17.5	18.1	19.0	18.6	17.1	14.9	14.0			
19	13.8	13.0	13.0	15.1	13.5	14.2	16.8	19.1	19.6	18.3	17.2	15.0	14.0			
20	13.4	12.8	12.8	14.9	14.2	14.2	16.3	19.7	19.9	17.8	17.2	15.0	13.8			
21	13.0	12.9	12.9	14.6	14.5	14.3	16.9	19.3	19.8	18.1	17.1	15.7	14.0			
22	12.8	13.0	13.0	15.0	14.8	14.2	16.8	19.7	19.9	17.8	16.5	16.0	14.0			
23	12.1	13.0	13.0	15.0	14.8	14.7	17.2	20.0	20.0	16.9	16.8	15.5	13.0			
24	12.2	12.8	12.8	14.1	14.8	15.0	17.8	20.0	20.0	17.8	16.9	15.5	12.8			
25	12.2	13.1	13.1	14.7	14.8	15.0	17.9	20.5	20.4	17.9	16.7	15.0	12.8			
26	12.7	12.9	12.9	14.8	15.0	15.0	17.7	20.6	20.3	17.8	17.0	15.0	12.8			
27	12.4	13.0	13.0	14.5	15.0	15.6	16.8	19.9	19.9	17.8	17.0	14.8	13.2			
28	12.4	13.3	13.3	14.6	15.2	15.5	16.4	19.7	20.1	17.3	17.0	14.7	13.1			
29	12.4	12.4	12.4	14.8	15.4	15.7	17.7	19.1	19.7	17.5	16.3	15.0	13.0			
30	12.1	12.1	12.1	15.0	15.2	15.6	16.6	19.0	19.8	17.6	15.2	15.4	12.3			
31	12.1	12.1	12.1	15.6	15.2	15.2	19.0	19.0	19.8	17.6	15.0	15.0	12.0			
1-10 MEANS	10.66	12.35	13.02	13.82	15.44	16.17	17.21	17.21	19.40	19.32	17.53	14.96	14.47			
SAMPLE SIZE	10	10	10	10	10	10	9	10	10	10	10	10	10			
11-20 MEANS	12.30	12.75	14.56	14.14	15.45	17.52	18.55	18.55	18.89	18.60	16.95	15.26	14.18			
SAMPLE SIZE	10	10	10	10	10	10	9	10	10	10	10	10	10			
21-31 MEANS	12.40	13.00	14.79	14.95	15.07	17.18	19.71	19.71	19.97	17.65	16.50	15.26	13.00			
SAMPLE SIZE	11	8	11	10	11	11	10	11	11	10	11	10	11			
MONTHLY MEANS	11.81	12.68	14.15	14.30	15.31	16.96	18.53	18.53	19.44	18.52	16.98	15.16	13.85	15.64		
SAMPLE SIZE	31	28	31	30	31	31	28	31	31	30	31	30	31			
MAXIMUM VALUE	13.8	13.3	15.6	15.4	16.0	18.4	20.6	20.6	20.4	19.8	18.0	16.0	15.0	20.6		
MINIMUM VALUE	8.0	11.5	12.0	13.3	14.2	15.3	16.3	16.3	18.2	16.9	15.0	14.3	12.0	8.0		
RANGE	5.8	1.8	3.6	2.1	1.8	3.1	4.3	4.3	2.2	2.9	3.0	1.7	3.0			
STANDARD DEV.	1.30	.40	.97	.58	.55	.92	1.19	1.19	.65	.76	.71	.46	.78			

VENTURA MARINA

SALINITY

YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	33.56	33.10	33.43	32.99	33.34	33.56	33.56	33.04	33.30	33.18	33.11	33.59			
2	33.54	33.25	30.62	31.26	33.37	33.52	33.52	33.41	33.40	32.80	33.24	33.60			
3	33.50	33.43	31.38	32.15	33.57	33.32	33.40	33.12	33.33	32.97	32.61	33.43			
4	23.04	33.30	31.18	33.01	33.50	33.08	32.99	33.24	33.05	33.24	32.93	15.83			
5	29.67	33.30	31.89	33.38	33.46	33.21	33.21	32.89	33.09	33.20	33.30	27.99			
6	30.90	33.42	32.62	32.73	33.54	32.79	33.62	33.13	33.09	33.19	33.31	30.36			
7	14.03	33.22	33.35	33.33	33.12	33.14	33.14	32.81	33.16	33.18	33.38	31.73			
8	20.43	33.32	31.26	33.11	32.74	33.14	33.14	32.84	32.87	33.15	33.22	33.15			
9	27.25	33.37	31.80	33.10	33.14	32.62	33.17	33.17	33.19	33.32	33.38	33.10			
10	30.26	33.26	32.62	33.08	33.19	32.86	32.54	32.82	33.29	33.24	33.77	33.40			
11	31.88	33.20	32.75	33.25	33.50	32.49	33.13	32.70	33.29	33.24	33.77	33.40			
12	31.99	33.21	32.97	33.32	33.47	32.76	33.07	32.88	33.39	33.42	33.40	33.41			
13	32.30	33.30	32.93	33.37	33.39	32.71	33.08	33.35	33.35	33.35	33.57	33.38			
14	32.94	33.40	33.08	33.54	33.40	33.52	33.52	33.11	33.42	33.42	33.53	33.58			
15	32.50	33.31	33.04	33.76	33.49	33.37	33.37	33.26	33.56	33.12	33.11	33.35			
16	32.40	33.31	33.04	33.44	33.49	33.22	33.49	33.38	33.41	33.34	33.36	33.27			
17	32.18	33.33	33.20	33.52	33.52	33.27	33.51	33.31	33.12	33.32	33.22	33.35			
18	32.26	33.47	33.05	33.06	33.67	32.92	33.37	33.27	33.13	33.34	33.42	33.38			
19	32.54	33.52	32.94	33.49	33.70	32.91	33.22	33.18	33.22	33.19	33.33	33.39			
20	32.36	33.43	32.39	33.56	33.49	32.72	33.17	33.26	33.10	33.20	33.34	33.30			
21	32.33	33.44	33.29	33.51	33.27	33.21	33.21	33.20	32.94	33.19	33.38	33.50			
22	32.49	33.05	33.48	32.87	33.44	33.44	33.55	33.04	33.34	33.35	33.34	33.38			
23	32.66	33.34	33.67	33.18	32.48	32.98	33.49	33.12	33.28	33.32	33.19	33.47			
24	32.89	33.54	33.22	32.56	32.05	33.17	32.70	33.35	33.26	33.23	33.57	33.44			
25	32.88	33.52	33.11	32.58	28.48	33.24	33.29	33.18	33.33	33.37	33.44	25.77			
26	33.00	33.45	32.98	32.82	32.28	33.35	33.19	33.14	33.35	33.40	33.43	33.51			
27	33.07	33.42	31.17	33.87	33.29	33.40	33.64	32.72	33.28	33.42	33.39	33.57			
28	33.09	33.46	32.23	33.45	33.26	32.84	33.64	32.40	33.24	28.91	33.39	30.20			
29	33.10		32.55	33.50	33.22	33.09	33.56	32.90	33.22	33.04	33.43	31.23			
30	33.14		33.03	31.33	33.33		33.66	32.98	33.17	33.07	33.51	32.25			
31	33.21		32.63				33.19	33.14		33.25		33.14			
1-10 MEANS	27.62	33.30	32.01	32.81	33.30	33.04	33.23	33.05	33.16	33.11	33.18	30.61			
SAMPLE SIZE	10	10	10	10	10	6	10	10	10	10	10	10			
11-20 MEANS	32.33	33.35	32.94	33.43	33.51	32.90	33.26	33.14	33.30	33.29	33.40	33.38			
SAMPLE SIZE	10	10	10	10	9	7	10	10	10	10	10	10			
21-31 MEANS	32.90	33.45	32.81	33.03	32.45	33.19	33.37	33.02	33.24	32.87	33.39	32.13			
SAMPLE SIZE	11	7	11	10	10	8	11	11	10	11	10	11			
MONTHLY MEANS	31.01	33.36	32.60	33.09	33.07	33.05	33.29	33.07	33.23	33.08	33.33	32.04			
SAMPLE SIZE	31	27	31	30	29	21	31	31	30	31	30	31			
MAXIMUM VALUE	33.56	33.54	33.67	33.87	33.70	33.56	33.66	33.41	33.56	33.42	33.77	33.60		33.87	
MINIMUM VALUE	14.03	33.10	30.62	31.26	28.48	32.49	32.54	32.40	32.87	28.91	32.61	15.83			14.03
RANGE	19.53	.44	3.05	2.61	5.22	1.07	1.12	1.01	.69	4.51	1.16	17.77			
STANDARD DEV.	4.31	.11	.78	.62	.97	.29	.29	.23	.15	.79	.21	3.50			

DAYS	TEMPERATURE												YEAR 1974		ANNUAL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			MEAN	MAX MIN
1	15.0	12.0	12.2	13.5	12.7	13.0	16.6	16.1	18.1	18.3	13.9	14.4				
2	15.0	12.0	12.6	13.3	15.1	13.5	16.6	21.1	18.3	18.3	13.9	15.7				
3	15.0	12.8	12.5	13.3	15.4	16.0	16.1	20.6	18.3	18.3	13.9	15.6				
4	15.0	12.8	11.2	14.0	15.4	14.5	15.6	19.2	18.0	16.7	14.5	15.1				
5	11.7	12.8	11.2	13.1	15.5	15.0	15.4	19.0	18.3	15.3	14.8	15.6				
6	11.6	12.8	11.2	12.5	13.4	14.8	17.8	19.0	18.0	15.5	14.7	15.0				
7	11.1	12.2	11.2	12.5	14.6	14.8	17.8	19.0	18.0	17.3	14.7	15.0				
8	11.1	12.2	11.2	12.2	14.4	17.0	17.0	19.0	18.3	16.8	14.7	15.0				
9	11.1	12.2	11.2	12.2	14.1	17.0	17.0	19.0	18.3	16.8	14.7	15.0				
10	11.2	12.2	11.2	11.7	14.5	17.5	17.0	18.9	16.2	16.8	15.6					
11	11.2	12.2	13.7	10.8	14.5	17.5	16.6	18.9	16.7	16.7	15.4					
12	11.2	12.6	13.7	10.8	14.1	17.0	18.3	19.0	16.2	16.2	15.4					
13	12.0	12.6	13.7	10.6	14.3	17.5	18.0	19.0	16.0	16.0	15.8					
14	12.0	12.6	13.7	10.6	14.3	17.5	18.0	16.7	16.3	16.3	15.8					
15	12.2	12.2	11.7	13.3	14.3	17.5	18.0	16.9	16.3	16.3	15.0					
16	12.2	12.6	11.7	13.8	14.4	17.5	18.9	17.8	17.9	16.7	15.5	15.3				
17	12.2	12.6	11.3	14.0	14.5	17.0	19.0	17.0	17.7	16.7	15.5	16.0				
18	12.2	12.4		13.7	14.4	17.0	18.9	18.8	17.7	16.1	15.8	16.0				
19	12.2	12.1		13.8	12.4	17.0	19.1	18.3	17.7	16.1	15.8	16.0				
20	12.2	12.1		12.5	13.0	13.5	19.0	18.5	17.7	15.8	15.0	15.8				
21	11.1	12.1		13.0	13.0	13.5	18.0	17.7	17.7	16.4	15.0	15.8				
22	11.2	12.1			13.0	16.0	19.0	18.0	17.7	16.3	15.0	15.8				
23	11.2	12.1			13.0	15.0	19.4	18.0	17.5	16.4	15.0	14.2				
24	12.8	12.1			13.0	16.9	19.0	18.3	17.4	16.4	15.0	14.2				
25	13.1	10.8	12.6		13.0	16.9	19.0	18.3	17.4	16.4	15.0	13.1				
26	13.1	11.0	12.7		13.0	16.1	17.6	18.3	17.5	16.4	15.0	13.0				
27	13.1	11.2	12.7		14.0	16.3	16.4	18.2	17.5	16.0	14.6	13.0				
28	13.1	11.6	12.7		15.0	16.1	15.0	17.9	17.5	16.0	14.6	13.1				
29	13.1		12.7	12.2	15.0	16.0	15.4	18.3	17.2	15.8	14.0	13.0				
30	11.6		12.7	12.4	13.0	16.8	15.4	18.1	17.5	15.6	14.1					
31	11.6		12.8		13.0		15.3	17.7		15.0						
1-10 MEANS	12.78	12.40	11.57	12.83	14.51	15.31	16.69	19.09	18.16	16.95	14.63	15.18				
SAMPLE SIZE	10	10	10	10	10	10	10	10	8	10	10	8				
11-20 MEANS	11.96	12.40	12.79	12.39	14.02	16.90	18.38	18.09	17.74	16.29	15.50	15.82				
SAMPLE SIZE	10	10	7	10	10	10	10	10	5	10	10	5				
21-31 MEANS	12.27	11.62	12.70	12.53	13.45	15.96	17.15	18.10	17.49	16.06	14.73	13.91				
SAMPLE SIZE	11	8	7	3	11	10	10	11	10	11	10	9				
MONTHLY MEANS	12.34	12.18	12.25	12.60	13.98	16.06	17.41	18.42	17.78	16.42	14.95	14.80				
SAMPLE SIZE	31	28	24	23	31	30	30	31	23	31	30	22				
MAXIMUM VALUE	15.0	12.8	13.7	14.0	15.5	17.5	19.4	21.1	18.3	18.3	15.8	16.0				
MINIMUM VALUE	11.1	10.8	11.2	10.6	12.4	13.0	15.0	16.1	17.2	15.0	13.9	13.0				
RANGE	3.9	2.0	2.5	3.4	3.1	4.5	4.4	5.0	1.1	3.3	1.9	3.0				
STANDARD DEV.	1.24	.52	.92	1.10	.91	1.40	1.40	1.00	.33	.78	.60	1.12				

SANTA MONICA		TEMPERATURE												YEAR 1974		ANNUAL	
DAYS		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN	
1	12.8	12.8	12.8	14.3	13.9	16.4	16.0	16.7	20.0	19.4	19.0	15.6	15.3				
2	11.7	12.8	12.8	14.3	13.9	15.3	16.8	18.9	21.3	19.3	18.8	15.0	15.1				
3	12.2	13.3	13.3	13.6	13.4	15.8	16.1	18.6	21.7	19.2	17.8	15.6	15.0				
4	11.1	13.3	13.3	12.7	12.7	15.8	16.6	19.2	21.7	20.3	17.5	15.6	15.3				
5	12.8	13.3	13.3	12.8	12.7	15.4	15.8	18.8	21.1	21.0	17.2	15.1	14.9				
6	12.8	12.8	13.2	13.2	12.9	15.0	16.7	18.3	21.4	20.0	16.8	15.0	14.9				
7	12.2	12.5	13.6	13.6	14.6	14.4	17.7	19.2	21.3	19.9	16.6	15.0	14.9				
8	12.2	13.1	13.6	13.6	15.1	14.4	18.1	17.2	21.2	20.0	17.3	15.1	14.7				
9	12.8	13.2	13.4	13.4	15.0	14.2	17.8	19.4	21.1	20.6	16.6	15.3	14.7				
10	12.8	13.4	13.4	12.1	12.1	14.9	18.3	19.4	21.0	20.0	16.7	15.6	15.0				
11	12.8	13.3	13.6	13.6	11.7	15.3	18.6	18.7	20.6	20.6	16.6	15.3	15.3				
12	13.3	13.3	13.3	12.2	12.5	15.6	18.3	19.6	19.4	21.0	17.8	15.4	15.1				
13	12.8	13.6	13.6	14.9	13.6	15.6	18.2	18.8	18.8	21.1	18.3	15.1	15.0				
14	12.8	13.3	13.3	15.0	14.7	14.7	18.7	19.7	18.3	20.6	18.2	16.1	14.4				
15	12.8	13.4	13.4	15.3	13.3	15.3	18.9	20.1	18.9	19.4	18.1	16.1	14.2				
16	13.3	13.6	13.6	14.9	13.3	15.6	19.2	20.7	18.4	19.2	18.4	15.6	14.8				
17	13.3	13.1	14.4	14.4	14.1	16.2	16.9	20.2	16.8	19.4	17.8	15.5	14.9				
18	13.3	12.7	14.7	14.7	14.3	16.6	18.4	21.2	20.0	19.6	18.3	15.4	15.0				
19	13.3	12.8	14.4	13.3	13.3	15.8	18.9	20.6	19.4	18.9	18.1	15.6	14.4				
20	13.3	13.1	14.9	13.8	13.8	15.0	17.8	20.8	19.3	18.3	17.3	15.6	14.7				
21	12.8	12.7	14.6	14.9	14.9	15.7	18.1	20.6	18.7	18.6	17.2	15.6	15.1				
22	13.3	12.8	14.4	15.7	16.4	16.4	18.6	20.3	19.3	18.6	17.2	15.8	15.0				
23	12.8	13.3	14.2	15.3	15.3	16.4	18.3	21.0	19.7	18.9	17.7	15.3	13.9				
24	12.8	13.8	14.2	14.7	14.7	15.6	18.1	21.2	20.0	17.8	17.2	15.3	13.6				
25	12.8	12.9	14.2	13.6	13.6	16.1	17.1	22.2	20.0	19.2	17.2	15.3	13.2				
26	13.3	13.1	13.3	13.5	13.5	16.9	17.2	21.3	18.6	18.6	17.3	15.0	13.1				
27	12.8	14.0	14.7	13.6	13.6	16.9	17.8	16.9	18.9	18.9	16.9	15.0	13.3				
28	12.2	14.2	14.6	14.4	14.4	16.8	18.3	19.4	19.2	18.6	17.2	15.3	13.6				
29	12.8		15.1	15.3	15.3	16.1	17.8	20.6	19.4	18.3	15.0	15.3	13.1				
30	13.3		14.7	15.4	15.4	15.8	16.7	21.7	19.4	18.9	15.3	15.3	13.1				
31	13.3		14.3	14.3		15.6		22.3	18.9		15.0		12.8				
1-10 MEANS	12.34	13.05	13.49	13.63	15.16	16.99	18.57	21.18	19.97	17.43	15.29	14.98					
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10	10				
11-20 MEANS	13.10	13.22	14.43	13.46	15.57	18.39	20.04	18.99	19.81	17.89	15.57	14.78					
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10	10				
21-31 MEANS	12.93	13.35	14.39	14.64	16.21	17.80	20.68	19.28	18.64	16.65	15.32	13.62					
SAMPLE SIZE	11	8	11	10	11	11	10	11	11	10	11	10	11				
MONTHLY MEANS	12.79	13.20	14.11	13.91	15.66	17.73	19.79	19.80	19.47	17.30	15.39	14.43					
SAMPLE SIZE	31	28	31	30	31	31	30	31	30	31	30	31	31				
MAXIMUM VALUE	13.3	14.2	15.3	15.7	16.9	19.2	22.3	21.7	21.1	19.0	16.1	15.3					22.3
MINIMUM VALUE	11.1	12.5	12.2	11.7	14.2	15.8	16.7	16.8	17.8	15.0	15.0	12.8					11.1
RANGE	2.2	1.7	3.1	4.0	2.7	3.4	5.6	4.9	3.3	4.0	1.1	2.5					
STANDARD DEV.	.52	.40	.77	1.03	.73	.92	1.43	1.19	.89	.97	.30	.79					

YEAR 1974

SALINITY

SANTA MONICA

DATA OMITTED - SEE INTRODUCTION

NEWPORT BEACH												TEMPERATURE				YEAR 1974				ANNUAL	
DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	MAX	MIN						
1	13.8	13.2	13.2	14.4	14.0	18.2	18.2	21.1	17.2	18.4	15.0	15.1									
2	12.3	12.8	13.5	15.0	16.3	17.4	19.2	21.8	16.9	18.9	15.1	15.0									
3	12.8	12.9	13.3	11.7	15.4	17.2	19.4	21.8	18.3	18.3	15.6	15.3									
4	13.3	13.5	12.5	12.0	15.4	17.0	18.6	20.7	19.1	18.0	15.8	17.2									
5	13.3	13.6	12.5	12.7	15.6	16.8	18.3	18.3	21.4	18.8	15.6	16.1									
6	13.1	13.0	13.2	13.3	15.8	17.2	18.5	16.1	20.1	16.8	15.6	16.1									
7	13.1	12.2	13.3	13.8	16.0	17.6	19.0	18.6	20.3	17.9	15.0	16.1									
8	12.7	12.7	13.2	13.8	16.0	18.1	19.2	20.5	20.3	17.2	15.5	15.0									
9	12.8	12.4	12.8	14.4	16.0	18.9	18.9	20.5	19.7	16.7	15.3	14.7									
10	12.8	12.7	13.3	13.0	15.0	17.7	16.7	19.9	19.7	16.7	15.3	14.7									
11	12.4	12.8	13.3	11.3	14.4	18.3	15.6	19.7	21.1	17.2	15.1	15.0									
12	12.8	13.2	13.3	11.6	16.7	17.8	15.6	19.0	21.1	17.5	15.0	14.9									
13	12.8	13.3	13.4	13.3	16.4	16.7	18.1	19.9	20.5	17.8	15.0	14.8									
14	12.8	13.3	13.9	13.6	17.0	15.8	17.2	19.6	19.4	17.6	16.7	15.0									
15	13.0	12.7	14.3	13.6	17.2	14.6	17.8	18.9	18.8	17.8	16.0	15.0									
16	13.0	12.9	14.4	14.2	17.7	15.0	19.0	20.0	16.9	17.5	16.1	15.0									
17	13.1	13.6	13.9	13.9	17.7	13.9	18.9	17.9	17.0	17.8	16.4	15.0									
18	13.8	13.3	13.9	14.4	18.1	13.3	20.0	18.0	18.5	18.0	16.1	15.0									
19	13.5	13.2	14.4	13.9	17.8	13.3	20.0	18.6	18.9	17.8	16.1	15.0									
20	13.2	13.2	14.6	13.9	12.7	13.3	20.0	19.1	19.0	17.2	16.4	15.0									
21	13.1	13.1	14.4	14.2	12.2	14.5	20.0	19.0	18.9	17.7	16.4	14.9									
22	12.5	12.9	13.9	14.4	14.4	14.4	18.8	19.3	17.8	18.1	16.2	14.9									
23	12.2	12.8	13.5	12.2	14.4	13.8	20.0	19.6	19.4	18.2	16.0	13.9									
24	12.6	12.8	13.9	13.3	15.8	12.7	20.8	17.2	19.4	18.3	15.6	13.0									
25	12.7	13.1	13.9	13.3	14.7	15.2	23.3	18.9	19.4	17.2	15.5	12.7									
26	13.3	13.3	13.1	12.7	15.3	16.1	19.4	19.0	19.3	17.2	15.5	13.3									
27	13.2	13.3	14.1	12.5	16.3	16.1	17.5	18.0	19.3	16.1	15.6	12.8									
28	13.0	13.3	13.9	13.2	16.7	17.0	18.4	18.0	19.3	17.4	15.6	13.8									
29	13.0		14.6	13.5	17.2	16.8	19.4	18.8	19.4	14.4	15.6	13.8									
30	13.1		13.9	13.8	17.8	16.9	19.9	18.3	18.6	15.6	15.6	13.4									
31	13.0		14.3		18.3		19.0	17.2		15.6		13.3									
1-10 MEANS	13.00	12.90	13.08	13.41	15.55	17.61	18.60	19.93	19.29	17.77	15.38	15.53									
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10									
11-20 MEANS	13.04	13.15	13.94	13.37	16.57	15.20	18.22	19.07	19.12	17.62	15.89	14.97									
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10									
21-31 MEANS	12.88	13.08	13.95	13.31	15.74	15.35	19.68	18.48	19.08	16.89	15.76	13.62									
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11									
MONTHLY MEANS	12.97	13.04	13.67	13.36	15.95	16.05	18.86	19.14	19.16	17.41	15.68	14.67	15.83								
SAMPLE SIZE	31	28	31	30	31	30	31	31	30	31	30	31									
MAXIMUM VALUE	13.8	13.6	14.6	15.0	18.3	18.9	23.3	21.8	21.4	18.9	16.7	17.2	23.3								
MINIMUM VALUE	12.2	12.2	12.5	11.3	12.2	12.7	15.6	16.1	16.9	14.4	15.0	12.7	11.3								
RANGE	1.6	1.4	2.1	3.7	6.1	6.2	7.7	5.7	4.5	4.5	1.7	4.5									
STANDARD DEV.	.38	.34	.58	.93	1.51	1.78	1.48	1.31	1.19	.97	.48	1.03									

NEWPORT BEACH SALINITY YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	33.64	33.55	33.69	33.66	33.67	33.82	33.76	33.84	33.55	33.79	33.49	33.60			
2	33.79	33.69	33.55	33.55	33.67	34.08	33.79	32.95	33.61	33.69	33.48	33.52			
3	33.63	33.56	33.60	33.66	33.74	33.75	33.87	33.82	33.39	33.51	33.42	33.42			
4	33.28	33.60	33.59	33.55	33.96	33.75	33.77	33.73	33.56	33.52	33.32	33.52			
5	33.49	33.90	33.60	33.65	33.71	33.71	33.89	33.70	33.72	33.54	33.29	33.42			
6	33.56	33.57	33.36	33.57	33.83	34.17	33.81	33.62	33.68	33.51	33.31	33.26			
7	33.38	33.53	33.21	33.76	33.91	33.70	33.88	33.56	33.79	33.56	33.36	33.50			
8	33.40	33.61	33.45	33.64	33.74	33.92	33.68	33.70	33.69	33.47	33.40	33.48			
9	33.46	33.67	33.32	33.73	33.69	33.73	33.76	33.70	33.66	33.61	33.54	33.50			
10	33.37	33.75	33.48	33.74	33.66	33.77	33.73	33.69	33.72	33.49	33.40	33.51			
11	33.42	33.65	33.27	33.72	33.70	33.92	33.81	33.66	33.68	33.57	33.51	33.59			
12	33.48	33.54	33.24	33.83	33.79	33.86	33.84	33.62	33.72	33.47	33.33	33.43			
13	33.66	33.73	33.36	33.59	33.92	33.80	33.68	33.54	33.69		33.38	33.53			
14	33.75	33.69	33.35	33.58	33.86	33.80	33.70	33.56	33.60	33.50	33.51	33.47			
15	33.50	33.65		33.78	34.09	33.66	33.65	33.74	33.61	33.59	33.78	33.52			
16	33.51	33.70	33.28	33.62	34.02	33.67	33.63	33.66	33.52	33.50	33.50	33.23			
17			33.57	33.67	34.06	33.70	33.72	33.71	33.68		33.39	33.33			
18	33.36	33.75	33.42	33.62	33.80	33.67	33.67	33.64	33.69		33.49	33.45			
19	33.50	33.55	33.35	33.68	33.90	33.71	33.70	33.63	33.62	33.52	33.48	33.42			
20	33.41	33.68	33.48	33.60	33.95	33.66	33.68	33.61	33.67	33.57	33.55	33.43			
21	33.38	33.55	33.45	33.71	33.90	33.70	33.66	33.66	33.63	33.50	33.55	33.47			
22	33.52	33.65	33.67	33.68	34.03	33.66	33.72	33.58	33.64	33.53	33.54	33.45			
23	33.50	33.77	33.54	33.65	33.85	33.68	33.62	33.56	33.79	33.52	33.45	33.48			
24		33.84	33.54	33.74	33.91	33.64	33.75	33.65	33.61	33.47	33.26	33.49			
25	33.43	33.62	33.55	33.64	33.91	33.64	33.93	33.49	33.47	33.78	33.49				
26	33.46	33.58	33.48	33.63	33.77	33.74	33.67	33.50	33.78	33.51	33.45	33.60			
27	33.44	33.63	33.44	33.69	33.88	33.74	33.58	33.57	33.59	33.46	33.50	33.52			
28	33.48	33.55	33.60	33.72	33.73	33.81	33.57	33.71	33.60	33.41	33.45	33.58			
29	33.52		33.47	33.63	33.70	33.77	33.54	33.56	33.88	33.41	33.37	33.66			
30	33.52		33.48	33.64	33.95	33.71	33.65	33.47	33.57	33.40	33.52	33.40			
31	33.62		33.46		33.79		33.64	33.60		33.41					
1-10 MEANS	33.50	33.64	33.49	33.65	33.76	33.84	33.79	33.63	33.66	33.56	33.41	33.47			
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10			
11-20 MEANS	33.51	33.66	33.37	33.67	33.91	33.75	33.71	33.64	33.65	33.53	33.49	33.44			
SAMPLE SIZE	9	9	9	10	10	10	10	10	10	7	10	10			
21-31 MEANS	33.49	33.65	33.52	33.67	33.86	33.71	33.68	33.58	33.67	33.46	33.49	33.51			
SAMPLE SIZE	10	8	11	10	11	10	11	11	10	11	10	11			
MONTHLY MEANS	33.50	33.65	33.46	33.66	33.84	33.76	33.73	33.61	33.66	33.51	33.46	33.47	33.61		
SAMPLE SIZE	29	27	30	30	31	30	31	31	30	28	30	31			
MAXIMUM VALUE	33.79	33.90	33.69	33.83	34.09	34.17	33.93	33.84	33.88	33.79	33.78	33.66	34.17		
MINIMUM VALUE	33.28	33.53	33.21	33.55	33.66	33.64	33.54	32.95	33.52	33.39	33.26	33.23			32.95
RANGE	.51	.37	.48	.28	.43	.53	.39	.89	.36	.40	.52	.43			
STANDARD DEV.	.12	.10	.13	.07	.12	.12	.10	.15	.08	.09	.12	.09			

SAN CLEMENTE

TEMPERATURE

YEAR 1974

ANNUAL MEAN MAX MIN

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	13.0	13.0	13.2	13.9	15.1	18.9	18.0	19.0	17.3	18.0	15.7	13.5			
2	11.9	13.0	12.5	14.0	15.2	17.5	19.0	19.0	18.1	17.2	15.0	15.0			
3	12.0	12.9	12.8	13.5	15.9	17.2	19.5	20.2	19.1	17.4	15.9	15.0			
4	12.1	13.0	12.5	13.1	16.4	18.0	18.5	19.2	17.3	17.3	15.3	15.0			
5	11.6	12.8	12.6	13.1	15.8	17.4	18.8	18.1	20.8	18.5	16.0	15.0			
6	12.0	12.8	12.9	12.9	15.0	17.6	17.2	17.5	20.9	17.0	16.0	15.9			
7	12.2	12.2	13.5	13.8	16.1	18.1	18.5	18.9	21.0	17.9	16.0	14.0			
8	12.6	12.0	13.5	14.1	15.9	18.5	19.0	18.9	20.0	17.9	15.5	14.0			
9	12.6	12.9	12.8	15.1	16.3	19.1	19.1	19.5	19.8	18.2	15.0	14.0			
10	12.6	12.5	13.5	12.8	16.0	18.3	17.5	20.0	20.0	16.5	16.0	14.0			
11	12.2	13.0	13.2	12.0	16.0	18.1	16.8	20.0	19.9	17.0	15.8	13.8			
12	13.0	13.0	13.2	13.1	16.0	18.3	16.8	20.0	19.7	17.0	16.0	14.0			
13	12.9	12.0	13.5	14.1	16.8	18.0	18.0	19.1	19.2	17.1	15.8	14.0			
14	12.9	13.4	13.8	13.9	16.7	18.5	18.5	17.9	19.1	17.0	16.9	14.2			
15	14.0	13.0	13.9	14.5	17.0	17.5	18.7	18.0	18.9	17.0	16.0	13.6			
16	12.9	13.5	13.8	17.3	17.3	16.5	19.2	18.0	18.2	17.0	15.8	14.3			
17	12.9	13.2	14.0	15.0	17.5	14.8	19.0	18.0	18.0	17.0	16.0	14.1			
18	13.4	13.2	13.8	14.5	17.9	13.9	19.1	18.0	18.3	17.0	16.1	14.2			
19	13.9	13.1	14.5	13.2	15.9	14.8	20.4	18.0	19.0	16.8	16.4	14.2			
20	13.6	12.9	14.7	13.5	13.4	13.5	20.9	18.5	19.1	16.6	15.4	14.0			
21	13.1	12.8	15.0	13.8	14.2	13.4	19.8	19.1	18.9	17.2	16.0	14.1			
22	12.8	12.8	14.5	14.0	13.5	14.7	20.0	19.2	19.0	17.8	16.3	14.0			
23	12.8	12.0	14.2	14.2	14.0	14.9	21.0	19.2	19.0	17.9	16.5	12.5			
24	13.0	12.0	14.0	14.2	14.5	14.5	20.8	19.0	19.0	18.0	15.7	12.2			
25	13.0	12.6	13.9	13.5	15.6	16.0	21.4	18.7	18.9	17.0	14.9	12.0			
26	13.0	12.6	14.2	13.2	16.0	16.0	20.0	17.0	18.7	16.9	15.0	12.0			
27	13.0	12.9	14.0	16.2	16.2	16.5	16.3	15.2	18.1	16.9	14.9	12.2			
28	13.0	13.5	14.5	14.0	17.0	17.2	16.4	16.0	18.9	17.0	14.5	12.7			
29	12.8		15.1	14.0	17.8	17.9	17.7	15.9	18.2	16.0	15.0	12.3			
30	12.8		14.1	15.1	14.0	18.0	18.5	16.0	18.0	15.5	14.5	12.2			
31	12.9		13.6		18.1		19.0	17.1		15.6		11.8			
1-10 MEANS	12.26	12.71	12.98	13.63	15.77	18.06	18.51	19.03	19.62	17.59	15.64	14.54			
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10			
11-20 MEANS	13.17	13.03	13.84	13.76	16.45	16.16	18.74	18.55	18.94	16.94	16.02	14.04			
SAMPLE SIZE	10	10	10	9	10	9	10	10	10	9	10	10			
21-31 MEANS	12.93	12.65	14.28	14.00	15.90	16.20	19.17	17.49	18.67	16.89	15.33	12.55			
SAMPLE SIZE	11	8	11	9	11	8	11	11	10	11	10	11			
MONTHLY MEANS	12.79	12.81	13.72	13.79	16.04	16.87	18.82	18.33	19.08	17.14	15.66	13.67	15.73		
SAMPLE SIZE	31	28	31	28	31	27	31	31	30	30	30	31			
MAXIMUM VALUE	14.0	13.5	15.1	15.1	18.1	19.1	21.4	20.2	21.0	18.5	16.9	15.9	21.4		
MINIMUM VALUE	11.6	12.0	12.5	12.0	13.4	13.5	16.3	15.2	17.3	15.5	14.5	11.8	11.6		
RANGE	2.4	1.5	2.6	3.1	4.7	5.6	5.1	5.0	3.7	3.0	2.4	4.1			
STANDARD DEV.	.55	.44	.70	.72	1.26	1.64	1.35	1.29	.89	.70	.59	1.07			

YEAR 1974

SALINITY

SAN CLEMENTE

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	33.57	33.84	33.91	33.59	33.70	34.00	34.06	33.68	33.62	33.59	33.23	33.34			
2	33.81	33.77	33.06	33.41	33.93	33.80	33.78		33.67	33.61	33.55	33.54			
3	33.96	33.72	33.36	33.68	33.69	33.76		33.81	33.64		33.42	33.55			
4	33.85	33.85	33.59	33.58	33.92	34.72	33.84	33.84	33.72	33.73	33.39	33.13			
5	33.34	34.78	33.70	34.37	33.94	33.90	33.92	34.17	33.82		33.36	33.46			
6			33.81	34.28	33.96	34.52	33.91	33.72	33.78	33.67	33.23	33.51			
7	33.20	33.62	33.55	33.74	33.90	33.96	34.05	33.83	33.79	33.81	33.54	33.83			
8	33.33	33.69	33.70	34.08	33.76	33.80	34.08	33.78	33.79	33.62	33.41	33.61			
9	33.19	33.66	33.61	33.76	33.93	33.76	34.02	34.13	33.92	33.59	33.39	33.50			
10	33.50	33.54	33.59	33.79	34.18	33.90	33.86	34.03	34.00	33.58	33.41	33.70			
11	33.57	33.74	33.54	34.01	34.52	33.75	33.72	33.87	33.76	33.60		33.63			
12	33.56	33.95	33.70	33.85	33.96	34.03	33.84	34.15	33.94	33.54	33.32	33.58			
13	33.55	33.56	33.42	33.77	33.73	33.88	34.01	33.81	33.87	33.72	33.49	33.61			
14	33.75	33.57	33.72	33.76	34.03	33.91	33.89	33.89	33.74	33.58	33.51	33.70			
15	33.65	33.88	33.67	33.65	34.09	33.72	33.82	33.71	33.67	33.72	33.39	33.68			
16	33.58	34.07	33.62	33.77	33.96		33.83	33.74	33.71	33.83	33.34	33.55			
17	33.49	33.61	33.58	33.79	34.09	34.19	34.38	33.86	33.66	33.74	33.39	33.76			
18	33.59	33.88	33.69	33.82	34.41	33.73	33.85	33.76	33.56	33.62	33.45	33.79			
19	33.53	33.78	33.43	33.67	33.44	33.63	33.94	33.59	33.72	33.67	33.58	33.51			
20	33.53	33.99	33.61	33.81	33.89	33.90	33.96	33.99	33.72	33.53	33.54	34.03			
21	33.54	33.73	33.70	33.75	33.84	33.90	33.92	33.77	33.68	33.62	33.55	33.69			
22	33.52	33.87	33.58	33.76	33.95	33.79	33.89	33.88	33.61	33.68	33.56	33.54			
23	33.91	33.95	33.56	33.88	33.87	33.63	33.79	33.76	33.61	33.68	33.27	33.61			
24	33.82	33.66	33.64	33.80	33.87		34.46	33.77	33.76	33.60	33.39	33.66			
25	33.65	34.70	33.51	34.04	33.89	33.78	34.14	33.94	33.72	33.72	33.29	33.81			
26	33.59	33.97	33.99	33.97	34.00		34.00	33.81	33.72	33.58	33.53	33.64			
27	33.66	34.43	33.43		33.90	34.50	33.86	33.69	33.62	33.54	33.39	33.66			
28	33.61	33.74	33.57	34.15	34.36	33.81	34.08		33.61	33.43	33.37	33.26			
29	33.75		33.71	33.83	33.99	33.81	34.29	33.62		33.47	33.23	32.88			
30	33.62		34.42	34.21	34.01	33.95	33.85	33.58	33.58	33.49	33.42	33.56			
31	33.66		33.59		33.96		33.76	33.75		33.51					
1-10 MEANS SAMPLE SIZE	33.49	33.83	33.59	33.83	33.89	34.03	33.93	33.89	33.77	33.65	33.39	33.52			
	8	9	10	10	10	10	10	9	10	8	10	10			
11-20 MEANS SAMPLE SIZE	33.56	33.82	33.58	33.79	33.98	33.87	33.93	33.84	33.72	33.66	33.45	33.68			
	9	10	10	10	10	9	10	10	10	10	9	10			
21-31 MEANS SAMPLE SIZE	33.67	34.01	33.70	33.93	33.97	33.90	34.00	33.76	33.66	33.57	33.40	33.53			
	11	8	11	9	11	8	11	10	8	11	10	11			
MONTHLY MEANS SAMPLE SIZE	33.58	33.88	33.63	33.85	33.95	33.94	33.95	33.83	33.72	33.62	33.41	33.58	33.74		
	28	27	31	29	31	27	31	29	28	29	29	31			
MAXIMUM VALUE	33.96	34.78	34.42	34.37	34.52	34.72	34.46	34.17	34.00	33.83	33.58	34.03	34.78		
MINIMUM VALUE	33.19	33.54	33.06	33.41	33.44	33.63	33.72	33.58	33.56	33.43	33.23	32.88			
RANGE	.77	1.24	1.36	.96	1.08	1.09	.74	.59	.44	.40	.35	1.15			
STANDARD DEV.	.18	.31	.22	.22	.21	.27	.18	.15	.11	.10	.10	.21			

SCRIPPS PIER

SURFACE TEMPERATURE

YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	13.4	13.0	13.3	14.4	15.7	17.8	18.1	20.1	20.8	18.8	17.5	14.5			
2	13.5	12.8	13.6	15.3	15.7	18.4	18.5	20.3	20.6	18.7	16.8	14.8			
3	12.6	12.7	13.2	14.6	15.5	18.1	18.8	20.6	21.3	19.2	16.5	13.8			
4	12.5	13.0	12.2	15.8	18.2	18.4	20.7	20.5	21.0	19.3	16.9	14.2			
5	12.8	12.8	12.6	15.4	15.8	17.8	18.8	20.5	21.2		16.9	15.0			
6	12.8	12.5	13.3	14.9	15.8	17.9	18.3	20.6	22.4	19.1	16.9	14.7			
7	12.8	12.1	13.3	16.0	16.1	18.0	19.0	21.2	22.3	18.9	16.5	14.3			
8	12.7	12.5	12.5	15.8	16.4	17.6	19.5	20.8	22.5	18.7	15.8	13.8			
9	13.0	12.8	12.8	15.6	16.3	18.5	20.0	20.6	22.4	18.4	16.2	13.6			
10	13.1	13.0	12.9	14.8	16.3	19.0	16.6	20.9	22.3	18.6	16.0	13.6			
11	13.1	13.1	13.3	12.6	16.9	18.2	18.8	21.2	20.9	18.3	16.0	13.8			
12	13.0	13.6	13.4	12.2	17.3	18.0	19.2	20.8	20.9	18.3	16.3	13.6			
13	13.2	13.7	13.4	12.4	17.1	18.1	19.9	21.0	20.7	18.6	16.0	13.8			
14	13.1	13.0	13.6	13.8	17.3	18.4	21.2	21.0	21.2	18.9	16.0	13.8			
15	13.1	13.5	13.8	14.6	17.2	18.1	21.0	20.1	20.5	18.5	15.8	13.8			
16	13.2	13.8	13.6	14.8	17.2	17.8	21.3	20.8	20.2	18.6	14.8	14.7			
17	13.4	13.9	13.7	14.8	17.1	17.2	21.9	20.2	20.3	18.9	14.7	14.4			
18	13.4	13.3	14.0	15.5	17.2	17.4	22.1	20.1	20.0	19.2	15.0	14.5			
19	13.5	13.3	14.5	15.4	16.6	17.2	22.5	19.9	19.5	19.0	15.0	14.0			
20	13.7	12.8	14.6	14.4	16.8	16.3	22.4	20.0	18.5	19.0	15.0	14.5			
21	13.5	13.0	14.8	15.4	17.0	16.7	23.9	20.1	19.0	18.6	15.0	14.1			
22	13.2	13.2	15.0	16.5	16.7	17.2	19.6	20.1	18.7	18.6	15.0	14.0			
23	13.1	13.3	15.1	15.9	17.2	17.2	22.1	19.8	19.5	18.9	14.8	13.8			
24	13.1	12.9	15.1	15.9	17.1	16.2	17.6	19.9	18.5	18.4	15.0	13.0			
25	12.9	13.2	15.2	14.0	17.5	16.8	19.8	19.8	19.6	18.3	14.8	12.7			
26	13.3	13.0	14.5	13.1	17.9	15.8	21.5	19.2	18.2	18.1	14.5	12.5			
27	12.5	13.3	14.7	14.0	17.5	16.3	21.0	19.4	17.7	17.8	14.8	13.0			
28	12.8	13.6	14.8	14.3	16.0	16.3	21.3	19.9	18.2	16.8	14.9	13.3			
29	12.9		15.3	15.0	17.7	15.9	19.5	20.0	19.1	17.3	14.5	13.0			
30	12.8		15.0	15.6	18.0	18.5	19.6	20.5	18.9	17.2	14.7	12.9			
31	12.7		15.6		17.7	19.7	19.7	20.8		17.1		12.7			
1-10 MEANS	12.92	12.72	12.98	15.17	15.94	18.13	18.59	20.62	21.67	18.86	16.60	14.23			
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	9	10	10			
11-20 MEANS	13.28	13.41	13.78	14.05	17.07	17.66	21.02	20.51	20.28	18.73	15.46	14.09			
SAMPLE SIZE	10	10	10	10	10	10	10	10	10	10	10	10			
21-31 MEANS	12.99	13.19	15.00	14.97	17.29	16.69	20.52	19.96	18.74	17.92	14.80	13.18			
SAMPLE SIZE	11	8	11	10	11	10	11	11	10	11	10	11			
MONTHLY MEANS	13.06	13.10	13.96	14.73	16.78	17.49	20.06	20.35	20.23	18.47	15.62	13.81	16.47		
SAMPLE SIZE	31	28	31	30	31	30	31	31	30	30	30	31			
MAXIMUM VALUE	13.7	13.9	15.6	16.5	18.0	19.0	23.9	21.2	22.5	19.3	17.5	15.0	23.9		
MINIMUM VALUE	12.5	12.1	12.2	12.2	15.5	15.8	16.6	19.2	17.7	16.8	14.5	12.5	12.1		
RANGE	1.2	1.8	3.4	4.3	2.5	3.2	7.3	2.0	4.8	2.5	3.0	2.5			
STANDARD DEV.	.32	.41	.94	1.08	.72	.87	1.67	.51	1.40	.65	.88	.68			

DAYS		SURFACE SALINITY												YEAR 1974			ANNUAL		
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN			MAX		
1		33.59	33.60	33.62	33.62	33.81	33.74	33.97	33.63	33.73	33.61	33.55	33.57						
2	33.69	33.64	33.57	33.69	33.69	33.71	34.15	33.99	33.62	33.73	33.65	33.50	33.59						
3	33.74	33.82	33.54	33.56	33.70	34.09	33.98	33.98	33.62	33.62	33.61	33.63	33.69						
4	33.67	33.58	33.62	33.54	33.70	34.14	33.67	33.67	33.65	33.71	33.72	33.67	33.51						
5	33.59	33.62	33.62	33.57	33.68	33.80	33.70	33.70	33.61	33.77	33.66	33.61	33.48						
6	33.64	33.65	33.67	33.56	34.00	33.83	33.71	33.60	33.72	33.72	33.72	33.65	33.56						
7	33.49	33.69	33.66	33.57	33.73	33.99	33.84	33.68	33.78	33.78	33.66	33.74	33.55						
8	33.45	33.66	33.39	33.61	33.76	33.78	34.06	33.70	33.76	33.76	33.66	33.66	33.61						
9	33.43	33.62	33.46	33.54	33.94	33.82	34.14	33.68	34.11	33.63	33.63	33.70	33.56						
10	33.62	33.70	33.53	33.59	33.76	33.91	33.99	33.67	33.88	33.65	33.70	33.70	33.65						
11	33.52	33.61	33.50	33.64	33.76	33.84	34.13	33.72	33.72	33.68	33.68	33.77	33.59						
12	33.57	33.62	33.57	33.70	33.76	33.80	33.81	33.75	33.75	33.71	33.68	33.64	33.58						
13	33.47	33.61	33.56	33.66	33.96	33.78	33.79	33.75	33.75	33.74	33.56	33.72	33.53						
14	33.49	33.72	33.62	33.68	33.92	33.88	34.10	33.78	33.78	33.74	33.64	33.80	33.61						
15	33.56	33.60	33.53	33.70	34.05	33.80	34.11	33.66	33.75	33.75	33.61	33.68	33.62						
16	33.53	33.73	33.54	33.68	33.73	33.73	34.12	33.72	33.72	33.84	33.60	33.52	33.58						
17	33.61	33.55	33.54	33.63	33.74	33.85	34.16	33.70	33.70	33.72	33.66	33.59	33.68						
18	33.56	33.58	33.63	33.63	33.80	33.80	34.20	33.78	33.78	33.77	33.65	33.62	33.61						
19	33.53	33.63	33.59	33.76	33.76	33.88	33.79	33.69	33.69	33.67	33.61	33.57	33.64						
20	33.52	33.58	33.54	33.76	33.76	33.66	33.77	33.84	33.73	33.71	33.59	33.65	33.56						
21	33.54	33.65	33.56	33.76	34.09	33.69	33.82	33.73	33.73	33.63	33.59	33.65	33.56						
22	33.55	33.62	33.56	33.67	34.03	33.68	33.82	33.71	33.71	33.67	33.57	33.52	33.52						
23	33.52	33.60	33.51	33.74	34.06	33.77	33.80	33.72	33.72	33.62	33.65	33.59	33.55						
24	33.58	33.67	33.54	33.74	33.75	33.71	33.62	33.67	33.67	33.64	33.74	33.53	33.55						
25	33.61	33.65	33.56	33.66	33.74	33.83	33.69	33.69	33.69	33.64	33.65	33.62	33.70						
26	33.56	33.65	33.58	33.65	34.08	33.84	33.67	33.62	33.62	33.64	33.63	33.53	33.74						
27	33.58	33.66	33.56	33.68	34.07	33.79	33.67	33.64	33.64	33.57	33.58	33.63	33.60						
28	33.60	33.62	33.60	33.71	34.03	33.66	33.70	33.69	33.69	33.63	33.52	33.59	33.58						
29	33.56	33.64	33.71	33.71	34.09	33.67	33.69	33.75	33.75	33.63	33.52	33.67	33.51						
30	33.58	33.58	33.76	33.76	33.93	33.98	33.62	33.75	33.65	33.65	33.56	33.60	33.58						
31	33.57	33.62	33.62	34.07	34.07	33.63	33.63	33.72	33.72	33.78	33.66	33.64	33.58						
1-10 MEANS	33.59	33.66	33.57	33.58	33.78	33.93	33.90	33.65	33.78	33.78	33.66	33.64	33.58						
SAMPLE SIZE	9	10	10	10	10	10	10	10	10	10	10	10	10						
11-20 MEANS	33.54	33.62	33.56	33.68	33.84	33.80	34.00	33.74	33.73	33.63	33.65	33.65	33.60						
SAMPLE SIZE	10	10	10	9	9	10	10	10	10	10	10	10	10						
21-31 MEANS	33.57	33.64	33.57	33.71	33.99	33.76	33.70	33.70	33.63	33.63	33.60	33.59	33.59						
SAMPLE SIZE	11	8	11	10	11	10	11	11	11	10	11	10	11						
MONTHLY MEANS	33.56	33.64	33.57	33.66	33.88	33.83	33.86	33.69	33.71	33.63	33.63	33.63	33.59						
SAMPLE SIZE	30	28	31	29	30	30	31	31	30	30	31	30	31						
MAXIMUM VALUE	33.74	33.82	33.67	33.76	34.09	34.15	34.20	33.84	34.11	33.74	33.74	33.80	33.74				34.20		
MINIMUM VALUE	33.43	33.55	33.39	33.54	33.68	33.66	33.62	33.60	33.57	33.57	33.52	33.50	33.48						33.39
RANGE	.31	.27	.28	.22	.41	.49	.58	.24	.54	.54	.22	.30	.26						
STANDARD DEV.	.07	.06	.06	.07	.15	.13	.19	.06	.10	.10	.05	.08	.06						

SCRIPPS PIER

BOTTOM TEMPERATURE

YEAR 1974

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
													MEAN	MAX MIN
1	13.0	13.2	14.6	15.2	17.4	17.7	19.8	19.9	18.5	17.2	14.7			
2	13.3	12.9	13.8	15.0	18.3	18.4	19.7	18.4	15.7	16.4	14.5			
3	12.7	12.7	12.8	14.8	15.6	14.2	18.6	19.3	18.7	16.6	13.8			
4	12.6	12.9	12.2	14.8	15.8	15.5	18.2	17.1	19.8	16.4	14.2			
5	12.8	12.8	12.3	15.3	15.3	15.9	15.2	19.2	19.4	16.7	15.0			
6	12.8	12.2	13.4	14.9	14.6	15.4	15.4	22.0	22.0	16.6	14.5			
7	12.8	12.2	13.5	15.8	14.6	17.9	16.1	16.2	21.5	16.2	16.0	14.0		
8	12.7	12.3	13.4	15.2	15.7	17.6	20.7	22.0	22.0	17.2	15.6	13.9		
9	13.1	12.6	12.9	15.6	16.2	19.0	20.3	20.3	17.8	19.0	16.2	13.4		
10	13.1	12.9	13.1	14.8	16.4	14.7	18.9	20.3	18.6	15.9	13.4			
11	12.9	13.2	13.4		16.9	16.5	18.3	18.2	17.6	18.2	15.9	13.7		
12	12.9	13.5	13.2		17.3	17.5	18.7	18.2	19.6	18.2	16.0	13.4		
13	13.2	13.7	13.4		17.1	18.0	19.4	21.0	20.5	18.0	16.0	13.6		
14	13.1	13.1	13.3		17.3	18.4	20.2	21.1	17.6	18.9	16.0	13.5		
15	13.1	13.5	13.8	13.9	17.2	16.6	20.1	15.7	20.5	18.3	15.4	13.7		
16	13.1	13.8	13.2	14.5	17.3	16.5	20.8	16.2	16.9	17.9	14.7	14.4		
17	13.4	13.9	13.6	14.0	17.3	15.6	20.3	17.6	20.1	19.1	14.6	14.0		
18	13.4	13.2	13.8	15.1	17.5	13.9	21.6	16.1	15.8	19.2	15.0	14.2		
19	13.3	13.4	14.5	15.0	15.4	13.5	21.8	19.5	15.7	18.1	14.8	14.0		
20	13.6	12.8	14.5	12.6	16.6	14.0	21.4	20.0	17.6	18.6	14.8	14.1		
21	13.5	13.1	14.5	13.7	16.6	14.7	16.9	20.0	18.7	18.2	15.0	14.1		
22	13.1	13.1	15.1	16.2	16.3	16.8	15.8	18.4	16.3	17.5	15.0	14.0		
23	13.4	13.1	15.1	15.8	17.1	16.8	22.0	19.5	19.0	18.6	15.0	13.1		
24	13.1	12.9	13.9	15.8	17.1	15.7	15.7	19.2	16.2	18.1	14.6	13.0		
25	13.1	13.1	14.6	13.9	16.3	16.0	19.1	19.4	17.8	18.2	14.8	12.2		
26	13.1	12.9	13.9	13.4	17.1		18.6	18.2	18.1	18.4	14.2	11.9		
27	12.5	12.9	14.6	13.4	17.1		20.9	15.5	17.5	17.8	14.6	12.7		
28	13.0	13.1	14.8	13.5	13.5	15.4	20.7	16.0	18.1	16.6	14.8	13.3		
29	13.0		15.4	14.5	15.0	14.8	19.0	15.5	19.0	17.6	14.0	12.9		
30	12.9	15.1	13.2	16.5	16.5	16.0	19.6	17.9	18.8	17.4	14.8	12.5		
31	12.6		15.5	17.5		18.5	18.5	20.8		16.4		12.7		
1-10 MEANS	12.88	12.65	13.05	15.08	15.52	16.52	17.20	18.94	19.99	17.20	16.37	14.14		
SAMPLE SIZE	9	10	10	10	10	8	10	10	10	9	10	10		
11-20 MEANS	13.20	13.41	13.67	14.18	16.98	16.05	20.27	18.36	18.27	18.46	15.32	13.86		
SAMPLE SIZE	10	10	10	6	10	10	10	10	9	10	10	10		
21-31 MEANS	13.03	13.03	14.76	14.34	16.37	15.77	18.81	18.21	17.94	17.70	14.68	12.95		
SAMPLE SIZE	11	8	11	10	11	8	11	11	10	11	10	11		
MONTHLY MEANS	13.04	13.03	13.86	14.59	16.29	16.11	18.76	18.49	18.75	17.80	15.46	13.63	15.82	
SAMPLE SIZE	30	28	31	26	31	26	31	31	29	30	30	31		
MAXIMUM VALUE	13.6	13.9	15.5	16.2	17.5	18.4	22.0	21.1	22.0	19.2	17.2	15.0	22.05	
MINIMUM VALUE	12.5	12.2	12.2	12.6	13.5	13.5	14.7	15.5	15.7	15.7	14.0	11.9		
RANGE	1.1	1.7	3.3	3.6	4.0	4.9	7.3	5.6	6.3	3.5	3.2	3.1		
STANDARD DEV.	.28	.43	.88	.93	1.01	1.41	2.05	1.74	1.73	.95	.85	.74		

YEAR 1974

BOTTOM SALINITY

SCRIPPS PIER

DAYS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN	ANNUAL MAX	ANNUAL MIN
1	33.62	33.54	33.58	33.57	33.70	33.73	33.91	33.59	33.74	33.64	33.54	33.53			
2	33.62	33.56	33.55	33.54	33.67	34.08	33.93	33.61	33.61	33.49	33.49	33.74			
3	33.75	33.60	33.59	33.55	33.69	33.95	33.93	33.60	33.76	33.50	33.61	33.57			
4	33.71	33.58	33.58	33.55	33.68	34.10	33.77	33.55	33.78	33.56	33.67	33.48			
5	33.62	33.60	33.57	33.57	33.98	33.68	33.64	33.61	33.69	33.56	33.75	33.51			
6	33.55	33.64	33.61	33.54	34.02	33.67	33.68	33.56	33.98	33.56	33.54	33.54			
7	33.59	33.63	33.64	33.58	33.69	33.86	33.68	33.52	33.67	33.48	33.65	33.53			
8	33.49	33.63	33.24	33.54	33.80	33.80	34.03	33.82	33.70	33.56	33.49	33.50			
9	33.33	33.60	33.48	33.56	33.91	33.91	34.05	33.66	33.61	33.60	33.56	33.53			
10	33.43	33.62	33.57	33.58	33.76	33.76	33.92	33.80	33.65	33.65	33.62	33.58			
11	33.48	33.58	33.54	33.77	33.76	33.76	33.98	33.62	33.53	33.60	33.69	33.59			
12	33.87	33.63	33.55	33.90	33.70	33.70	33.72	33.63	33.69	33.61	33.61	33.56			
13	33.51	33.62	33.53	33.72	33.74	33.74	33.76	33.70	34.06	33.57	33.59	33.57			
14	33.52	33.59	33.56	33.93	33.89	33.73	34.05	33.71	33.57	33.57	33.64	33.60			
15	33.50	33.60	33.52	33.68	34.02	33.73	34.10	33.54	33.71	33.58	33.65	33.56			
16	33.50	33.55	33.53	33.66	33.66	33.66	34.08	33.57	33.58	33.57	33.70	33.53			
17	33.48	33.57	33.51	33.63	33.72	33.78	34.00	33.55	33.65	33.60	33.57	33.62			
18	33.45	33.58	33.58	33.66	33.70	33.72	34.20	33.53	33.54	33.63	33.67	33.57			
19	33.56	33.60	33.58	33.62	34.13	33.67	33.73	33.69	33.64	33.57	33.57	33.58			
20	33.53	33.56	33.54	33.62	33.85	33.72	33.75	33.63	33.59	33.58	33.57	33.57			
21	33.55	33.60	33.57	33.66	34.03	33.63	33.60	33.67	33.59	33.64	33.55	33.56			
22	33.46	33.59	33.54	33.67	34.00	33.67	33.70	33.58	33.58	33.56	33.61	33.56			
23	33.47	33.58	33.61	33.65	34.02	33.80	34.05	33.68	33.62	33.61	33.56	33.61			
24	33.53	33.60	33.52	33.67	33.75	33.76	33.58	33.67	33.53	33.63	33.55	33.60			
25	33.56	33.57	33.51	33.68	33.66	33.80	33.69	33.68	33.58	33.64	33.57	33.56			
26	33.56	33.56	33.62	33.62	33.98	33.80	33.60	33.70	33.58	33.60	33.61	33.63			
27	33.60	33.60	33.50	33.67	34.06	33.67	33.67	33.51	33.54	33.59	33.58	33.60			
28	33.56	33.58	33.56	33.70	34.02	33.84	33.62	33.55	33.62	33.52	33.57	33.53			
29	33.53	33.53	33.56	33.72	33.98	33.67	33.60	33.56	33.60	33.50	33.59	33.50			
30	33.56	33.56	33.59	33.70	34.14	33.85	33.60	33.60	33.67	33.53	33.62	33.61			
31	33.58	33.58	33.58	33.76	33.76	33.76	33.58	33.76	33.76	33.53	33.53	33.54			
1-10 MEANS	33.57	33.60	33.54	33.56	33.79	33.86	33.85	33.63	33.72	33.56	33.59	33.55			
SAMPLE SIZE	9	10	10	9	10	8	10	10	10	10	10	10			
11-20 MEANS	33.54	33.59	33.54	33.64	33.86	33.74	33.94	33.62	33.67	33.59	33.63	33.57			
SAMPLE SIZE	10	10	10	6	9	10	10	10	9	10	10	10			
21-31 MEANS	33.54	33.58	33.56	33.68	33.83	33.73	33.66	33.63	33.59	33.58	33.58	33.57			
SAMPLE SIZE	11	8	11	9	11	8	11	11	10	11	10	11			
MONTHLY MEANS	33.55	33.59	33.55	33.63	33.83	33.77	33.81	33.63	33.66	33.58	33.60	33.57			
SAMPLE SIZE	30	28	31	24	30	26	31	31	29	31	30	31			
MAXIMUM VALUE	33.87	33.64	33.64	33.72	34.14	34.10	34.20	33.82	34.06	33.65	33.75	33.74			34.20
MINIMUM VALUE	33.33	33.54	33.24	33.54	33.02	33.63	33.58	33.51	33.53	33.48	33.49	33.48			33.02
RANGE	.54	.10	.40	.18	1.12	.47	.62	.31	.53	.17	.26	.26			
STANDARD DEV.	.10	.03	.07	.06	.22	.12	.19	.08	.12	.05	.06	.05			

DISTRIBUTION LIST

Inter-American Tropical Tuna Commission
(c/o Scripps Institution of Oceanography)

Dr. James Joseph

Office of Naval Research
(c/o Scripps Institution of Oceanography)

Dr. Robert D. Stevenson

National Marine Fisheries Service
(c/o Scripps Institution of Oceanography)

Dr. E. H. Ahlstrom

Dr. Michael Laurs

Dr. A. Alvarino de Leira

Mr. J. F. T. Saur

Library

(2)

Scripps Institution of Oceanography

Mr. A. Bainbridge

Dr. T. J. Chow

Mr. Edward H. Coughran

Dr. Paul K. Dayton

Dr. Abraham Fleminger

Mr. Jeffery D. Frautschy

Mr. Richard Greenbaum

Dr. Carl L. Hubbs

Prof. John D. Isaacs

Miss Margaret D. Knight

Mrs. Kittie Kuhns

(35)

Dr. W. A. Nierenberg

Prof. Joseph L. Reid, Jr.

Dr. Richard H. Rosenblatt

Mr. Richard A. Schwartzlose

Ms. Chris Scott, SIO Library

(3)

Dr. Fred N. Spiess

Mr. Donald W. Wilkie

Mr. David Wirth

Director's Office

Library, SIO, Archives

Mr. E. B. Bennett
Physical Limnology Section of the
Canada Center for Inland Waters
Burlington, Ontario
Canada

Dr. Richard A. Boolootian
Department of Zoology
University of California
Los Angeles, California 90024

Dr. Robert H. Bourke
Department of Oceanography
Naval Postgraduate School
Monterey, California 93940

British Navy Staff
British Embassy
3100 Massachusetts Ave., N.W.
Washington, D. C. 20008

Mr. Dean Bumpus
Woods Hole Oceanographic
Institution
Woods Hole, Massachusetts 02543

Mr. Charles R. Carry
Tuna Research Foundation
215 Cannery Street
Terminal Island, California 90731

Mr. R. F. Cayot, Chief
Department of Engineering Research
Pacific Gas & Electric Co.
4245 Hollis Street
Emeryville, California 94608

Director
Center for Marine Studies
San Diego State University
San Diego, California 92182

Secretary for Publications
Chesapeake Bay Institute
The Johns Hopkins University
112 Macaulay Hall
Baltimore, Md. 21218

Mr. Harold B. Clemens, Jr.
Department of Fish and Game
350 Golden Shore
Long Beach, California 90802

Dr. Daniel M. Cohen
Systematics Laboratory
NMFS-NOAA
National Museum of Natural History
Washington, D. C. 20560

Curator
UCLA Ichthyology Collection
University of California
Department of Biology
Los Angeles, California 90024

Oficina De Pesca
Direccion General De
Regiones Pesqueras
Ave. Ruiz No. 4
Ensenada, Baja California
Mexico

Mr. John B. Davis, Director
San Diego Natural History Museum
P. O. Box 1390
San Diego, California 92112

Mr. Robert L. Eberhardt
Marine Occupations Program
7250 College Drive
San Diego, California 92111

Estación de Investigación Pesquera
Apdo. postal 1306 (Biblioteca)
Ensenada, B. C. México

Fisheries-Oceanography Library
151 Oceanography Teaching Building
University of Washington
Seattle, Washington 98195

Department of Fisheries and Wildlife
Humboldt State College
Arcata, California 95521

Librarian
Fishery Research Unit
P. O. Box B62
Tema, Ghana

Dr. W. I. Follett
Calif. Academy of Sciences
San Francisco, California 94118

Prof. James A. Gast
School of Natural Resources
Humboldt State College
Arcata, California 95521

Dr. Robert H. Gibbs, Jr.
Division of Fisheries
U. S. National Museum
Washington, D. C. 20560

Mr. W. E. Gilbert
Department of Oceanography
Oregon State University
Corvallis, Oregon 97330

Mr. George Grider,
Woodward-Clyde Consultants
3489 Kurtz Street
San Diego, California 92110

R. S. Grove
Environmental Controls Engineering
Southern Calif. Edison Company
P. O. Box 800
Rosemead, California 91770

Mr. Clarence A. Hall, Jr.
Prof. of Geology
University of California
Los Angeles, California 90024

Hancock Library of Biology &
Oceanography
University of Southern California
Los Angeles, California 90007

Anatolio Hernandez Carvallo, Director
Estacion de Biología Pesquera
Paseo Claussen, Col. Los Pinos
Mazatlan, Sinaloa, Mexico

Director
Hopkins Marine Station
Pacific Grove, California 93950

Curator, Ichthyology Collection
Department of Biology
University of California
Los Angeles, California 90024

Instituto Panamericano de Geografía
D-Historia
Ex-Arzobispado 29
Mexico 18, D. F., Mexico

Japan Meteorological Agency
Oceanographical Section
Tokyo, Japan

Mr. James H. Johnson
Chief, Pacific Environmental Group
NMFS/PEG
Department of Commerce
c/o Fleet Numerical Weather Group
Monterey, California 93940

Prof. G. H. Jung
Department of Oceanography
U. S. Naval Post Graduate School
Monterey, California 93940

Dr. Taivo Laevastu
U. S. Naval Environmental Prediction
Research Facility
Naval Post Graduate School
Monterey, California 93940

Dr. Michael Laurs, Forecast Division
NOAA/National Marine Fisheries Service
Southwest Fishery Center
La Jolla, California 92037

Prof. Dale Leipper
Department of Oceanography
Naval Postgraduate School - 58
Monterey, California 93940

Dr. Keith B. MacDonald
Department of Geology
University of California
Santa Barbara, California 93106

Marine Environmental Sciences
Consortium Dauphin Island
Sea Lab
P. O. Box 386
Dauphin Island, Alabama 36528

Marine Resources Region
Director, Pelagic Fish Investigations
350 Golden Shore
Long Beach, California 90802

Marine Technical Info. Center
California Department of Fish & Game
350 Golden Shore
Long Beach, California 90802

Dr. Jotaro Masuzawa
Sapporo Meteorological Observatory
Chuo-ku, Sapporo, Japan

Mexican Govt. Fish Commission
233 "A" Street, Suite 709
San Diego, California 92101

Library
Moss Landing Marine Laboratories
P. O. Box 223
Moss Landing, California 95039

Director
Museum of Natural History
Box 1390
San Diego, California 92112

National Oceanographic Data Center
NOAA (3)
Washington, D. C. 20235

NOAA/National Marine Fishery Service
Tiburon Marine Laboratory
3150 Paradise Drive
Tiburon, California 94920

National Weather Service
Attn. SSD
P. O. Box 11188, Federal Bldg.
Salt Lake City, Utah 84147

National Weather Service
Lindbergh Field
2980 Pacific Highway
San Diego, California 92101

Office of Naval Research
Code 462, 480, 481
800 North Quincy Street
Arlington, Va. 22217

Laboratory Director
NOAA/National Marine Fishery
Service, Biological Laboratory
Library
P. O. Box 155
Auke Bay, Alaska 99821

Librarian
NOAA/National Marine Fishery Service
Biological Laboratory
P. O. Box 3830
Honolulu, Hawaii 96812

NOAA/National Ocean Survey Librarian
Washington Science Center
Rockville, Md. 20852

Dr. Kenneth S. Norris
Director, Coastal Marine Laboratory
University of California
Santa Cruz, Calif. 95064

Nova University
Physical Oceanographic Laboratory
Library, 8000 N. Ocean Drive
Dania, Florida 33004

Senor Raúl E. Ocampo (2)
Instituto de Geofísica
Ciudad Universitaria
Mexico 20, D. F. Mexico

Chief, Oceanographic Surveys Branch
NOAA/National Ocean Survey
Washington Science Center
Rockville, Md. 20852

Oregon Department of Fish & Wildlife
Marine Region, Building #1
Marine Science Center
Newport, Oregon 97365

Oregon Fish Commission
Research Laboratory
Box 5430
Charleston, Oregon 97420

Oregon Institute of Marine Biology
University of Oregon
Charleston, Oregon 97420

Pacific Environment Institute
4160 Marine Drive
West Vancouver, B. C.
Canada

Director
Pacific Marine Station
Dillon Beach
Marin County, California 94929

Pattullo Study
School of Oceanography
Oregon State University
Corvallis, Oregon 97331

Pelagic Fish Investigations
Attn: Mr. Herbert Frey
350 Golden Shore
Long Beach, California 90802

Mr. James Phelan
Department of Fish & Game
Room 6042
1350 Front Street
San Diego, California 92101

Dr. G. L. Pickard
Institute of Oceanography
University of British Columbia
Vancouver, B. C., Canada
V6T 1W5

Mr. D. W. Privitt, Librarian
Institute of Oceanographic Science
Wormley, Near Godalming
Surrey, England

Mr. John Radovich, Head
Operations Research Branch
Calif. Department of Fish & Game
1416 Ninth Street
Sacramento, California 95814

Dr. G. A. Robilliard
Woodward-Clyde Consultants
2 Embarcadero Center
San Francisco, California 94111

Mr. Gunnar I. Roden
Department of Oceanography
University of Washington
Seattle, Washington 98195

Mr. Nelson Sandefur
General Atomic
P. O. Box 81608
La Jolla, California 92037

Librarian
Serials Department
San Diego State University Library
San Diego, California 92182

Mr. J. F. T. Saur
c/o NOAA/National Marine
Fishery Service
Fishery-Oceanography Center
La Jolla, California 92037

Mr. P. Seelinger
Underwater Systems Branch
Code 3144, Bldg. 514
Pacific Missile Test Center
Point Mugu, California 93042

Dr. D. Shoji
Hydrographic Department
5-3-1, Tsukiji, Chuo-ku
Tokyo, Japan 104

Dr. Reimer Simonsen
Institut für Meeresforschung
285 Bremerhaven
Am Handelshafen 12
Bundesrepublik
Deutschland
(West Germany)

Mr. Jens Smed
Conseil International pour
l'Exploration de la Mer
Charlottenlund Slot
Charlottenlund, Denmark

Southern California Edison
Chief, Steam Generation Engineers
P. O. Box 351
Los Angeles, California 90053

Southern California Edison Co.
Attn: Ron Strachan, Room 360
P. O. Box 800
Rosemead, California 91770

Mr. Lon E. Spharler, Supervisor
Project Studies, Capital Outlay
Programming
P. O. Box 2390
1416 Ninth Street
Sacramento, California 95811

Dr. Norman Tebble, Director
The Royal Scottish Museum
Chambers Street
Edinburgh, Scotland

Technical Processes Branch-D823
NOAA, Libraries Division
8060 13th Street-Room 806
Silver Spring, Maryland 20910

Dr. M. Uda
College of Marine Science & Technology
Tokai University
Orido, Shimizu-shi
Shizuoka-ken, Japan

Mr. Robert T. Umlor
L. M. R., Inc.
Statistician
11339 Sorrento Valley Road
San Diego, California 92121

University of California, Berkeley
Department of Zoology
Berkeley, California 94720

University of California
Santa Barbara
Department of Biology
Santa Barbara, California 93106

Chairman
University of Washington
Department of Oceanography WB-10
Seattle, Washington 98195

U. S. Coast Guard
Oceanographic Unit, Bldg. 159-E,
Navy Yard Annex
Washington, D. C. 20590

Oceanographer
U. S. Fleet Weather Facility
Naval Air Station, N. I.
San Diego, California 92135

U. S. Naval Oceanographic
Office Library, Code 1640
Washington, D. C. 20390

U. S. Naval Postgraduate School (2)
Attn: Commanding Officer
Fleet Numerical Weather Central
Monterey, California 93940

Mr. G. F. Warn
Engineering Geologist
California Department of Transportation
P. O. Box 81406
San Diego, California 92138

Dr. M. Pat Wennekens
Department of the Navy
Office of Naval Research
1076 Mission Street
San Francisco, California 94103

Woods Hole Oceanographic Institution
Document Library LO-206
Woods Hole, Mass. 02543

Working Collection
Department of Oceanography
Texas A. and M. University
College Station, Texas 77843

World Data Center A, Oceanography
National Oceanic & Atmospheric
Administration
Washington, D. C. 20235

Mr. S. Tabata
Pacific Region
Marine Sciences Directorate,
512 Federal Building,
1230 Government Street
Victoria, B. C. Canada
V8W 1Y4

Dr. Ricardo Monges Lopez
Instituto De Geofisica
Torre De Ciencias, Ciudad Universitaria
Mexico 20, D.F. Mexico

Mr. Val Worthington
Woods Hole Oceanographic Inst.
Woods Hole, Mass. 02643

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Surface Water Temperatures at Shore Stations		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER SIO Ref 77-12 ✓
		8. CONTRACT OR GRANT NUMBER(s) N00014-75-C-0152 ✓
9. PERFORMING ORGANIZATION NAME AND ADDRESS California Univ., Scripps Inst. of Oceanography		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS NR 388-127
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE 1 August 1977
		13. NUMBER OF PAGES 56
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		

ED
78